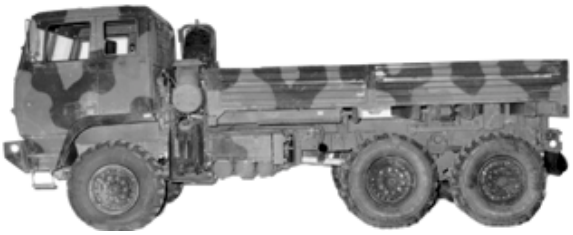
C1, ARMY FM 10-500-71
AIR FORCE TO 13C7-6-141

AIRDROP OF SUPPLIES AND EQUIPMENT:

RIGGING THE FAMILY OF MEDIUM TACTICAL VEHICLES (FMTV)



HEADQUARTERS
DEPARTMENT OF THE ARMY
DEPARTMENT OF THE AIR FORCE

CHANGE NO. 1

HEADQUARTERS
DEPARTMENT OF THE ARMY AND
DEPARTMENT OF THE AIR FORCE
WASHINGTON, DC, 1 July 2001

AIRDROP OF SUPPLIES AND EQUIPMENT:

RIGGING THE FAMILY OF MEDIUM TACTICAL VEHICLES (FMTV)

This change adds the procedures for rigging the M1094, 5-ton dump truck on a type V platform for low-velocity airdrop. It also changes honeycomb stack four, used with the M1093, 5-ton cargo truck.

FM 10-500-71/TO 13C7-6-141, 1 December 1999, is changed as follows:

1. New or changed material is identified by a vertical bar (▌) in the margin opposite the changed material.

2. File this transmittal sheet in front of the publication for reference purpose.

3. Remove old page and insert new page as indicated below:

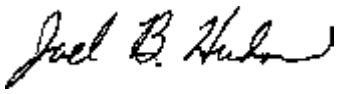
Remove page	**Insert page**
Cover	Cover
i and ii	i through iii
1-1	1-1
3-19 and 3-20	3-19 and 3-20
	4-1 through 4-81

DISTRIBUTION RESTRICTION: Approved for public release; distribution is unlimted.

By Order of the Secretary of the Army and the Air Force:

ERIC K. SHINSEKI
General, United States Army
Chief of Staff

Official:



JOEL B. HUDSON
Administrative Assistant to the
Secretary of the Army

GEORGE T. BABBITT
General, USAF
Commander, AFMC

MICHAEL E. RYAN
General. USAF
Chief of Staff

DISTRIBUTION:

Active Army, Army National Guard, and U.S. Army Reserve: To be distributed in accordance with the initial distribution number 115485, requirements for FM 10-500-71.

CHAPTER 1

INTRODUCTION

1-1. Scope

This manual tells and shows how to prepare and rig the following series of medium tactical vehicles for low-velocity airdrop from a C-130, C-141, C-17, and C-5 aircraft:

a. M1081, 2 1/2-ton cargo truck.
b. M1093, 5-ton cargo truck.
c. M1094, 5-ton dump truck.

1-2. Special Considerations

CAUTION: Only ammunition authorized by FM 10-500-53/TO 13C7-18-41 may be airdropped.

a. The loads covered in this manual may include hazardous material as defined in AFJAM 24-204/TM 38-250.

b. A copy of this manual must be available to the joint airdrop inspectors during the before- and after-loading inspections.

1-3. Recommended Changes

The proponent of this publication is HQ TRADOC. You are encouraged to report any errors or omissions, and suggest ways for improving this manual.

Army personnel, send your comments on DA Form 2028 directly to:

AERIAL DELIVERY AND FIELD SERVICES DEPARTMENT
US ARMY QUARTERMASTER CENTER AND SCHOOL
1010 SHOP ROAD
FORT LEE VA 23801-1502

Air Force personnel, send your reports on AFTO Form 22 through:

HEADQUARTERS
AIR MOBILITY COMMAND (AMC/DOTX)
402 SCOTT DR, UNIT 3A1
SCOTT AFB IL 62225-5302

to:

AERIAL DELIVERY AND FIELD SERVICES DEPARTMENT
US ARMY QUARTERMASTER CENTER AND SCHOOL
1010 SHOP ROAD
FORT LEE VA 23801-1502

Also send information copies of AFTO Form 22 to:

HEADQUARTERS
WR-ALC/LKCB
460 RICHARD RAY BLVD
ROBINS AFB GA 31098-1640

FIELD MANUAL
NO. 10-500-71
TECHNICAL ORDER
NO. 13C7-6-141

HEADQUARTERS
DEPARTMENT OF THE ARMY
DEPARTMENT OF THE AIRFORCE
WASHINGTON, DC, 1 July 2001

AIRDROP OF SUPPLIES AND EQUIPMENT: RIGGING FAMILY OF MEDIUM TACTICAL VEHICLES (FMTV)

TABLE OF CONTENTS

Section II. RIGGING M1081, 2 1/2-TON CARGO TRUCK WITH ACCOMPANYING LOAD

CHAPTER 3 RIGGING M1093, 5-TON 6 x 6 STANDARD CARGO TRUCK ON A 28-FOOT TYPE V PLATFORM FOR LOW-VELOCITY AIRDROP

CHAPTER 4 RIGGING M1094, 5-TON, DUMP TRUCK ON A 28-FOOT TYPE V PLATFORM FOR LOW-VELOCITY AIRDROP

CHAPTER 1

INTRODUCTION

1-1. Scope

This manual tells and shows how to prepare and rig the following series of medium tactical vehicles for low-velocity airdrop from a C-130, C-141, C-17, and C-5 aircraft:

a. M1081, 2 1/2-ton cargo truck.
b. M1093, 5-ton cargo truck.
c. M1094, 5-ton dump truck.

1-2. Special Considerations

CAUTION: Only ammunition authorized by FM 10-500-53/TO 13C7-18-41 may be airdropped.

a. The loads covered in this manual may include hazardous material as defined in AFJAM 24-204/TM 38-250.

b. A copy of this manual must be available to the joint airdrop inspectors during the before- and after-loading inspections.

1-3. Recommended Changes

The proponent of this publication is HQ TRADOC. You are encouraged to report any errors or omissions, and suggest ways for improving this manual.

Army personnel, send your comments on DA Form 2028 directly to:

AERIAL DELIVERY AND FIELD SERVICES DEPARTMENT
US ARMY QUARTERMASTER CENTER AND SCHOOL
1010 SHOP ROAD
FORT LEE VA 23801-1502

Air Force personnel, send your reports on AFTO Form 22 through:

HEADQUARTERS
AIR MOBILITY COMMAND (AMC/DOTX)
402 SCOTT DR, UNIT 3A1
SCOTT AFB IL 62225-5302

to:

AERIAL DELIVERY AND FIELD SERVICES DEPARTMENT
US ARMY QUARTERMASTER CENTER AND SCHOOL
1010 SHOP ROAD
FORT LEE VA 23801-1502

Also send information copies of AFTO Form 22 to:

HEADQUARTERS
WR-ALC/LKCB
460 RICHARD RAY BLVD
ROBINS AFB GA 31098-1640

3-4. Positioning Honeycomb Stacks

Position the honeycomb stacks as shown in *Figure 3-11.*

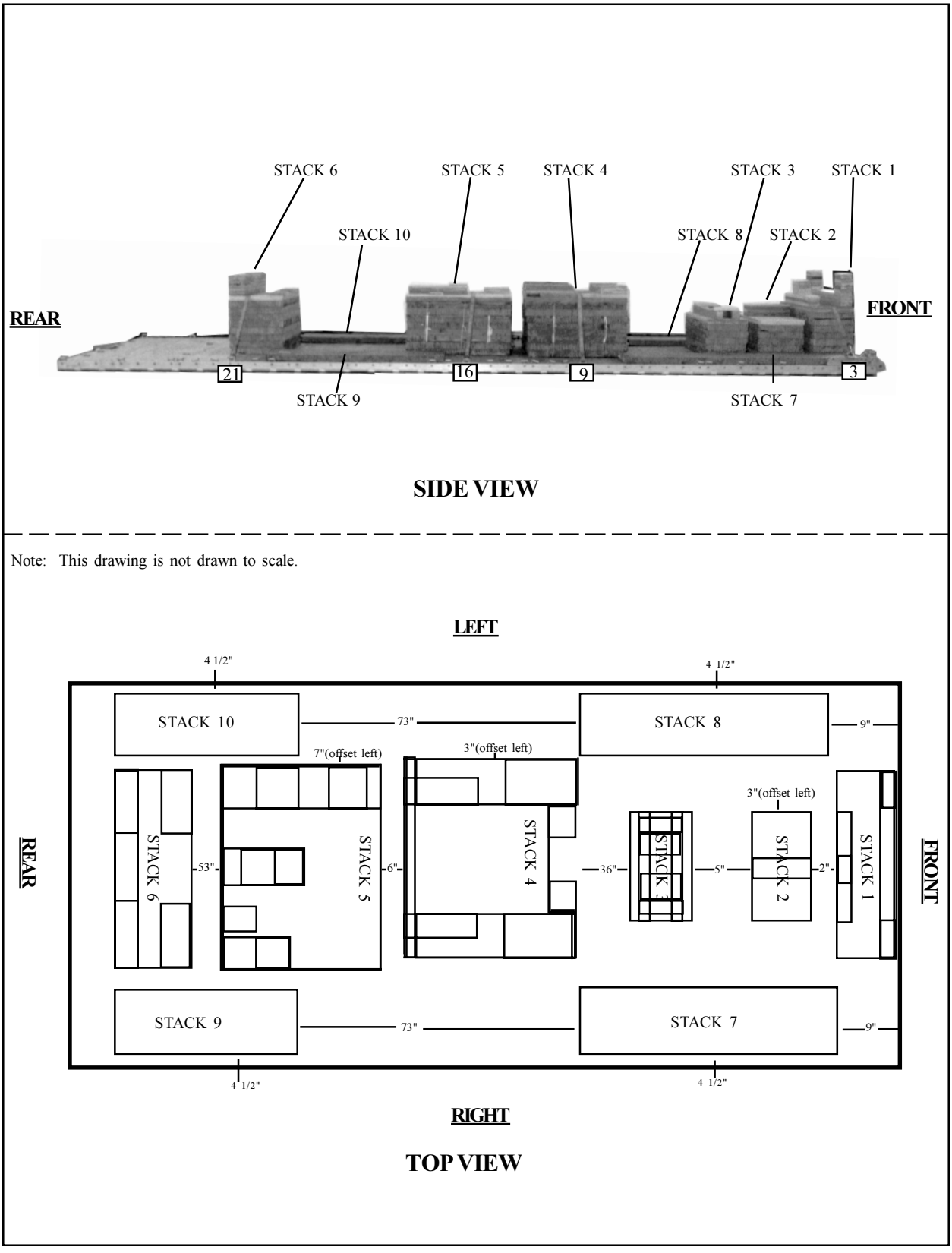


Figure 3-11. Honeycomb stacks positioned on platform

Stack Number	Instructions
1	Position stack 1, centered and flush with the front of the platform. Secure the stack by passing a 15-foot tie-down lashing through clevis 3A and through its own D-ring. Route the lashing over the stack and secure it with a D-ring and loadbinder to clevis 3.
2	Position stack 2, offset 3 inches to the left of center and 2 inches from stack 1.
3	Position stack 3, centered and 5 inches from stack 2.
4	Position stack 4, offset 3 inches to the left of center and 36 inches from stack 3. Secure the stack by passing a 15-foot tie-down lashing through clevis 9A and through its own D-ring. Route the lashing over the stack and secure it with a D-ring and a loadbinder to clevis 9.
5	Position stack 5, offset 7 inches to the left of center and 6 inches from stack 4. Secure the stack by passing a lashing through clevis 16A and it's own D-ring. Route the lashing over the stack and secure it with a D-ring and a loadbinder to clevis 16.
6	Position stack 6, centered and 53 inches from stack 5. Secure the stack by passing a 15-foot tiedown lashing through clevis 21A and then through its own D-ring. Route the lashing over the stack and secure the end with a D-ring and loadbinder to clevis 21.
7	Position stack 7, 9 inches from the front edge of the platform and 4 1/2 inches from the right platform side rail.
8	Position stack 8, 9 inches from the front edge of the platform and 4 1/2 inches from the left platform side rail.
9	Position stack 9, 73 inches from stack 7 and 4 1/2 inches from the right platform side rail.
10	Position stack 10, 73 inches from stack 8 and 4 1/2 inches from the left platform side rail.

Figure 3-11. Honeycomb stacks positioned on platform (Continued)

CHAPTER 4

RIGGING M1094, 5-TON DUMP TRUCK ON A 28-FOOT TYPE V PLATFORM FOR LOW-VELOCITY AIRDROP

RIGGING M1094, 5-TON DUMP TRUCK

4-1. Description of Load

The M1094, 5-ton dump truck (*Figure 4-1*) is rigged on a 28-foot, type V airdrop platform with seven G-11 cargo parachutes and other items of airdrop equipment.

The load consists of the M1094, 5-ton dump truck and a 2,000 pound accompanying load. This load is 95 inches in height, 108 inches in width, 354 inches in length and has a rigged weight of 32,087 pounds.

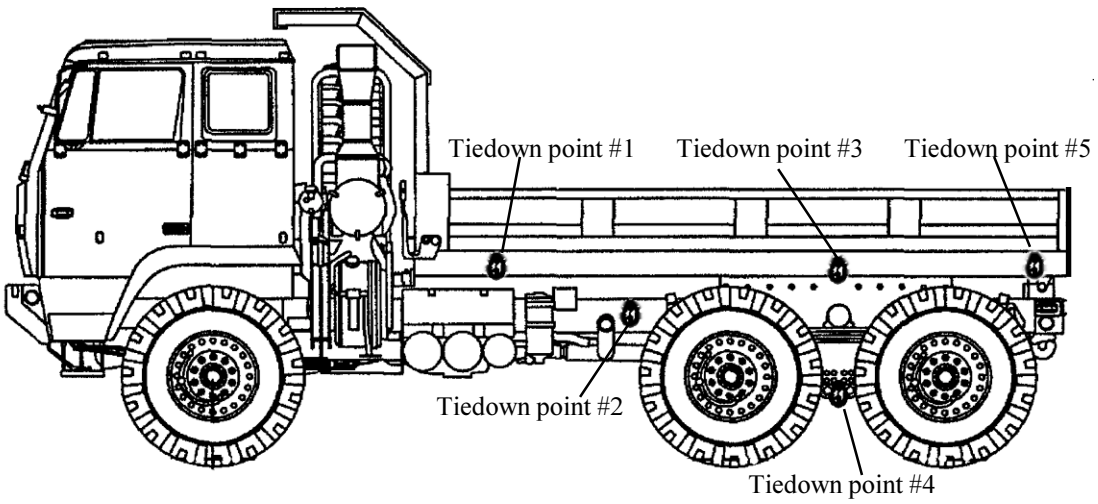
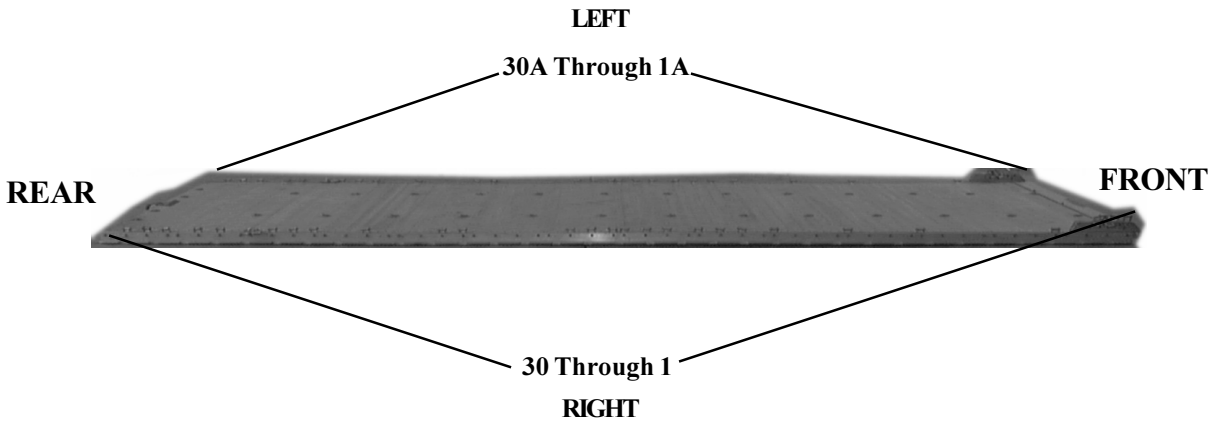


Figure 4-1. M1094, 5-ton dump truck

4-2. Preparing Platform

Prepare a 28-foot, type V platform as described below and as shown in *Figure 4-2.*

NOTES:
1. **The nose bumper may or may not be installed.**
2. **Measurements given in this section are from the front edge of the platform NOT from the front edge of the nose bumper.**
3. **The "triple" clevis installations provide two tiedown points for the same attachment hole.**



Step:

1. Inspect, or assemble and inspect, a 28-foot, type V airdrop platform as outlined in TM 10-1670-268-20&P/ TO 13C7-52-22.
2. Install a tandem link on the front of each platform side rail using holes 1, 2, and 3.
3. Attach clevises to each tandem link using bushings 1, 2, and 3 (tripled).
4. Starting at the front of each platform side rail, install clevises using bushings bolted to holes 5, 12, 16, 20, 22, 23, 24, 26, 27, 28, 29, 30, 31, 37, 38, 42, 45, 46, 47, 48 (tripled), 50, 51, 53, 54, and 55.
5. Starting at the front of the platform, number the clevises bolted to the right rail 1 through 30 and the left rail 1A through 30A.

Figure 4-2. Platform prepared

4-3. Preparing Honeycomb Stacks

Use the material in *Table 4-1* to prepare 10 honeycomb stacks as shown in *Figures 4-3 through 4-10*.

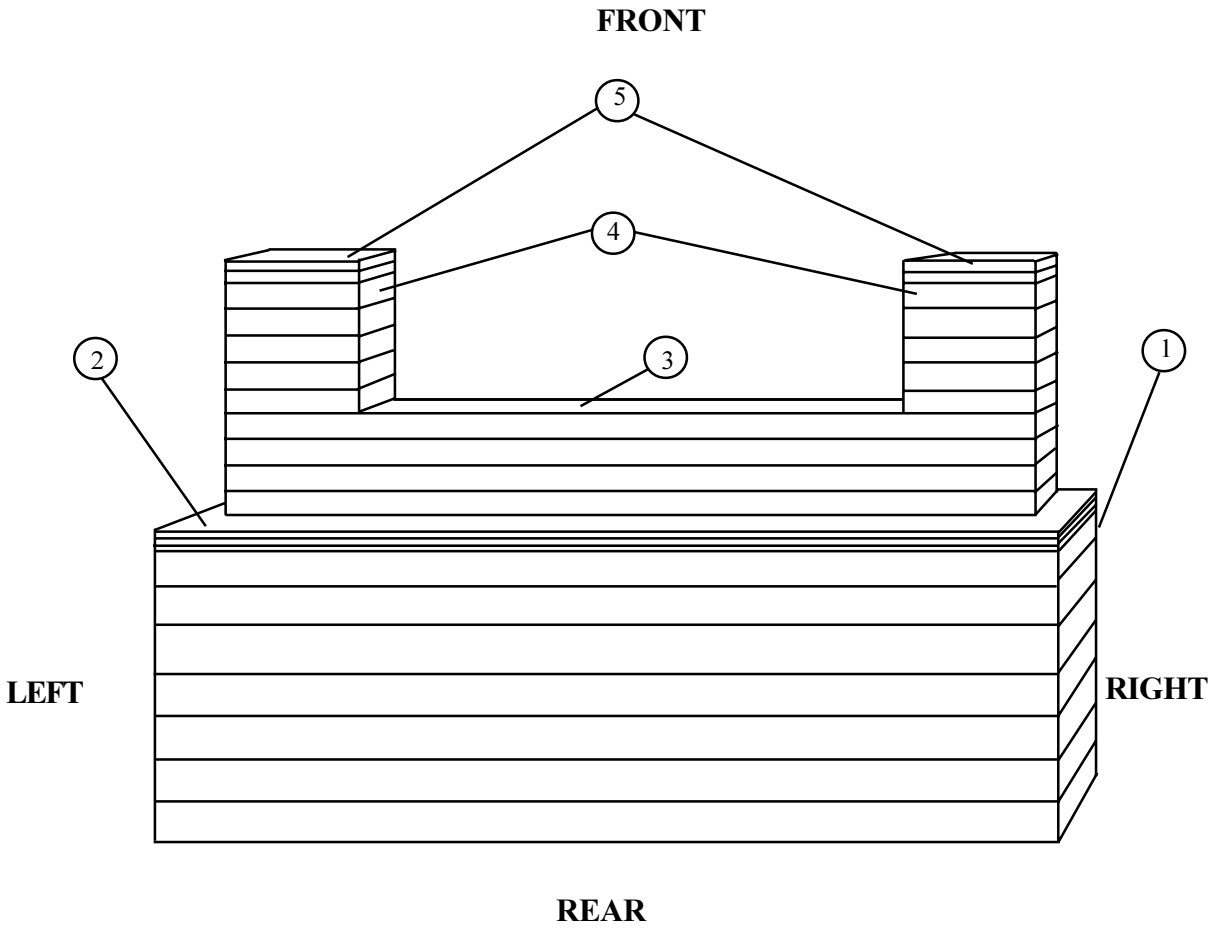
Table 4-1. Material needed to build honeycomb stacks

Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
1	7	48	18	Honeycomb	See *Figure 4-3.*
	3	48	18	3/4-inch plywood	
	4	2- by 6	45	Lumber	
	10	2- by 6	8	Lumber	
	4	8	5 1/2	1/2-inch plywood	
	3	2- by 6	33	Lumber	
	4	2- by 6	10	Lumber	
	1	10	5 1/2	1/2-inch plywood	
2	5	43	20	Honeycomb	See *Figure 4-4*.
	3	43	20	3/4-inch plywood	
	3	2- by 8	20	Lumber	
	1	7 1/2	20	3/4-inch plywood	
3	5	48	18	Honeycomb	See *Figure 4-5.*
	3	48	18	3/4-inch plywood	
	2	4- by 4	48	Lumber	
	2	2- by 4	11	Lumber	
	2	11	6	3/4-inch plywood	
4	2	36	44	Honeycomb	See *Figure 4-6.*
	2	12	44	Honeycomb	
	12	18	44	Honeycomb	
	6	12	36	Honeycomb	
	3	48	44	3/4-inch plywood	
	1	2- by 6	48	Lumber	
without winch	**4**	2- by 6	21	Lumber	
with winch	**5**	2- by 6	21	Lumber	
	2	5 1/2	21	3/4-inch plywood	
	4	2- by 12	12	Lumber	
	2	12	11 1/2	3/4-inch plywood	
	2	2- by 12	38 1/2	Lumber	

Table 4-1. Material needed to build honeycomb stacks (continued)

Stack Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
5	2	36	46	Honeycomb	See *Figure 4-7.*
	2	12	46	Honeycomb	
	12	18	46	Honeycomb	
	6	12	36	Honeycomb	
	3	48	46	3/4-inch plywood	
	6	14	12	3/4-inch plywood	
	2	2- by 8	26 1/2	Lumber	
	1	7 1/2	26 1/2	3/4-inch plywood	
	1	7 1/2	8	3/4-inch plywood	
	1	10	10	3/4-inch plywood	
	1	8	6	3/4-inch plywood	
	1	8	16	3/4-inch plywood	
6	8	43	24	Honeycomb	See *Figure 4-8.*
	3	43	24	3/4-inch plywood	
	3	2- by 8	43	Lumber	
	4	2- by 8	12	Lumber	
	4	7 1/2	12	3/4-inch plywood	
	4	14	7	3/4-inch plywood	
7	1	18	96	Honeycomb	See *Figure 4-9.*
8	1	18	96	Honeycomb	See *Figure 4-9.*
9	1	18	74	Honeycomb	See *Figure 4-10.*
10	1	18	74	Honeycomb	See *Figure 4-10.*

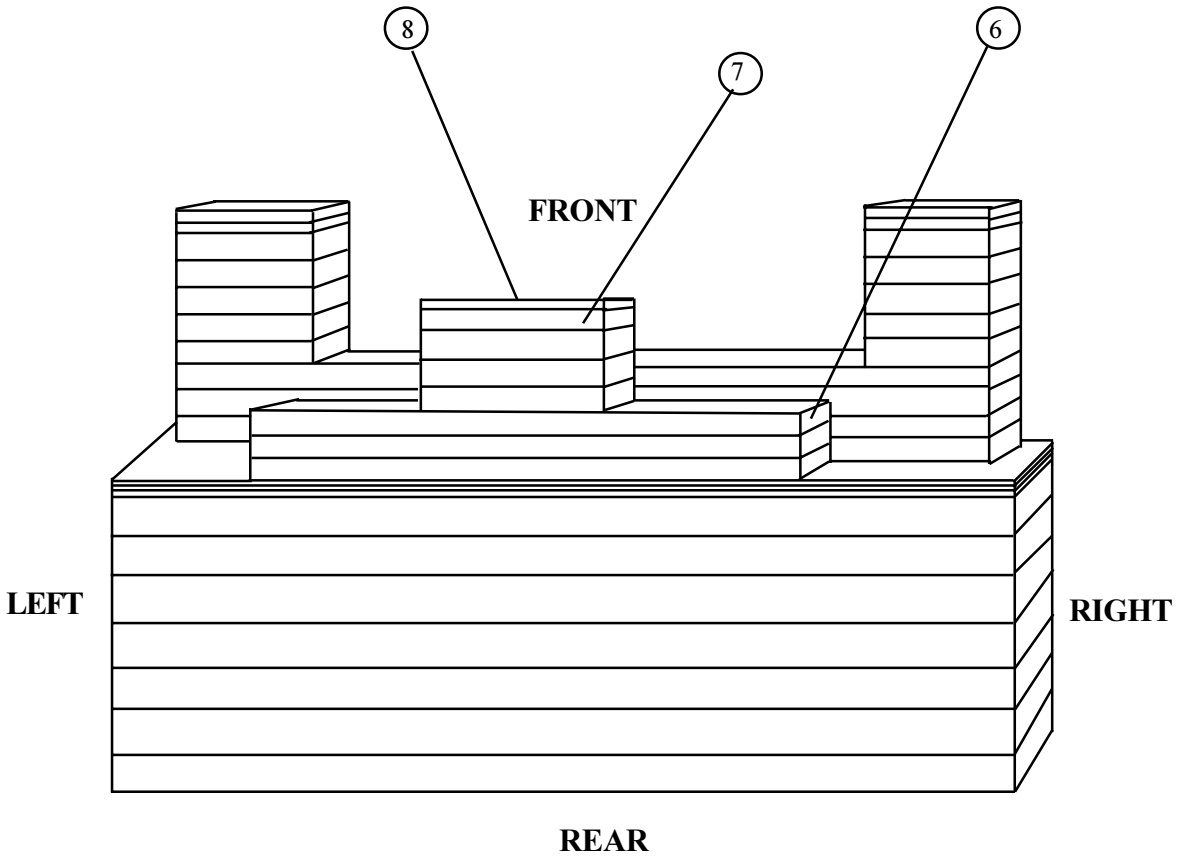
Note: This drawing is not drawn to scale.



1. Glue seven 48- by 18-inch pieces of honeycomb together to form a base.
2. Glue and nail three 48- by 18-inch pieces of 3/4-inch plywood together. Glue the plywood to the top of the base.
3. Glue and nail four 2- by 6- by 45-inch pieces of lumber together. Center, glue, and nail the lumber flush with the front edge of the plywood.
4. Glue and nail two 5 piece stacks of 2- by 6- by 8-inch lumber. Glue and nail one stack on the right edge of the lumber and the other stack on the left edge of the 45-inch lumber.
5. Glue and nail two 2 piece stacks of 8- by 5 1/2-inch pieces of 1/2-inch plywood. Glue and nail on the top right side of each 2- by 6- by 8-inch piece of lumber in step 4.

Figure 4-3. Stack 1 prepared

Note: This drawing is not drawn to scale.



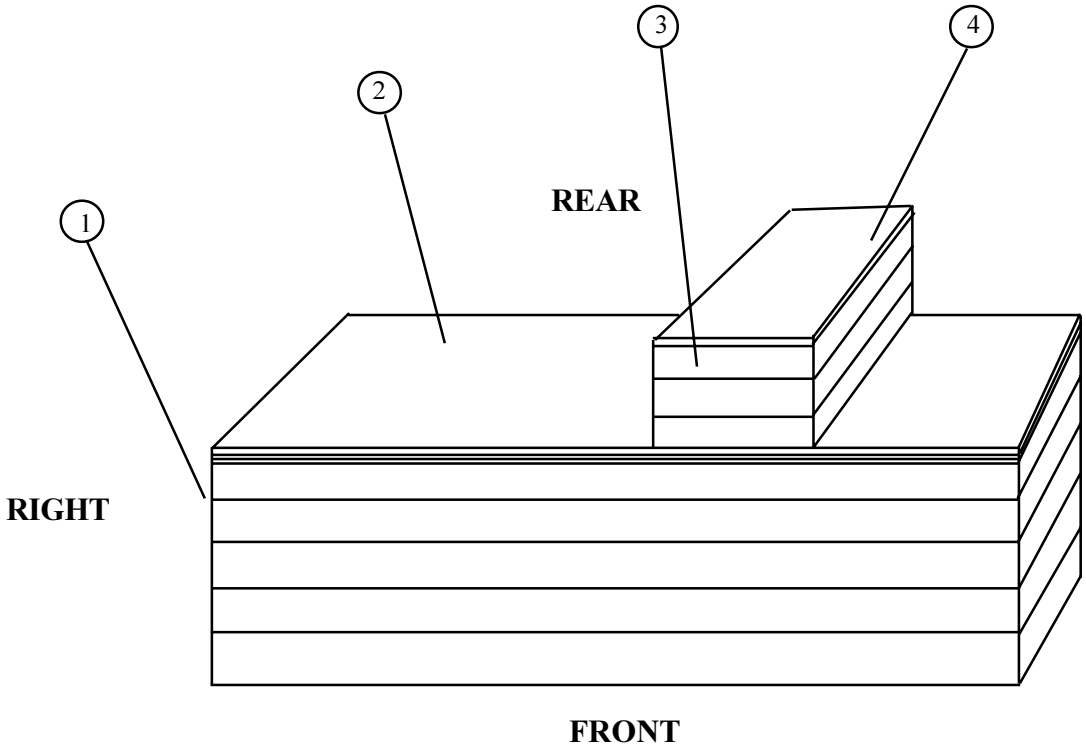
(6) Glue, center and nail flush with the rear of the 45-inch stack, three 2- by 6- by 33-inch pieces of lumber.

(7) Glue, center and nail four 2- by 6- by 10-inch pieces of lumber on the 2- by 6- by 33-inch pieces of lumber.

(8) Glue, center and nail a 10- by 5 1/2-inch piece of 1/2-inch plywood on top of the 2- by 6- by 10-inch pieces of lumber.

Figure 4-3. Stack 1 prepared (Continued)

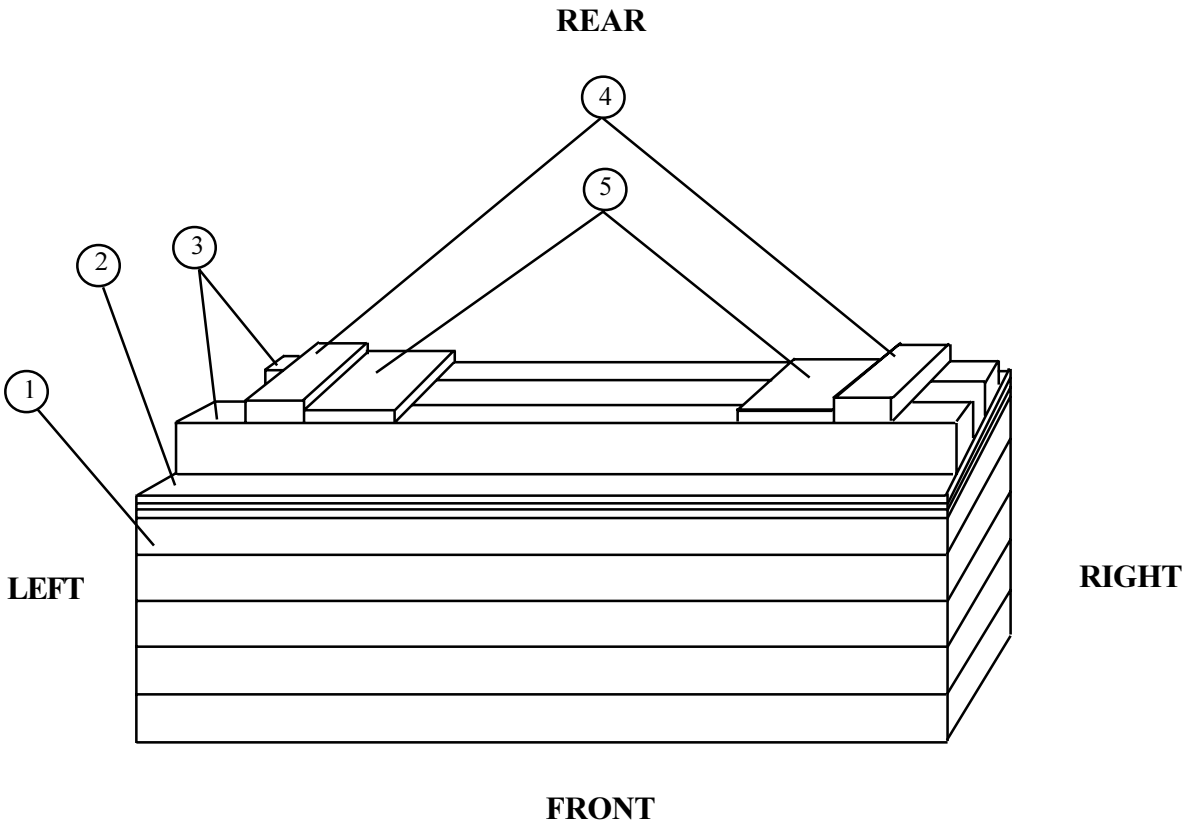
Note: This drawing is not drawn to scale.



1. Glue five 43- by 20-inch pieces of honeycomb together to form the base.
2. Glue, center, and nail three 43- by 20-inch pieces of 3/4-inch plywood on top of the base.
3. Glue and nail three 2- by 8- by 20-inch pieces of lumber 13 inches from the left edge of the plywood.
4. Glue and nail a 7 1/2- by 20-inch piece of 3/4-inch plywood on top of the three 2- by 8- by 20-inch pieces of lumber.

Figure 4-4. Stack 2 prepared

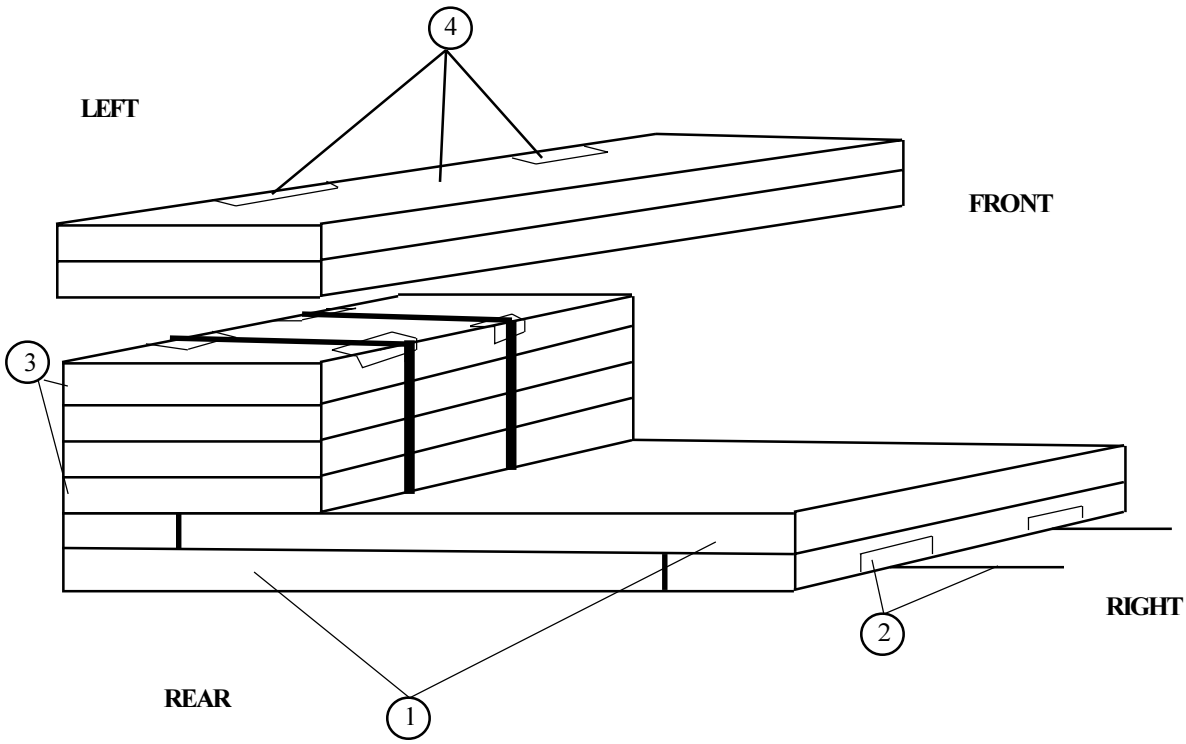
Note: This drawing is not drawn to scale.



1. Glue five 48- by 18-inch pieces of honeycomb together to form a base.
2. Glue and nail three 48- by 18-inch pieces of 3/4-inch plywood together. Glue the plywood to the top of the base.
3. Glue and nail two 4- by 4- by 48-inch pieces of lumber on top of the plywood, with one 3 1/2 inches from the front edge of the plywood, and the other 3 1/2 inches from the rear edge of the plywood.
4. Glue and nail two 2- by 4- by 11-inch pieces of lumber on top of the 4- by 4-by 48-inch pieces of lumber from step 3. Position one 2 inches from the right edges and one 2 inches from the left edges of the 4- by 4- by 48-inch pieces of lumber.
5. Glue and nail two 11- by 6-inch pieces of 3/4-inch plywood on top of the 4- by 4-by 48-inches pieces of lumber in step 3. Position one piece of plywood so that it is flush with the inside edges of the 2- by 4- by 11-inch piece of lumber in step 4. Position the second piece of plywood flush with the inside edges of the left 2- by 4-inch piece of lumber in step 4.

Figure 4-5. Stack 3 prepared

Note: This drawing is not drawn to scale.



1. Position a 36- by 44-inch piece of honeycomb beside a 12- by 44-inch piece of honeycomb. Glue a 36- by 44-inch piece of honeycomb and a 12- by 44-inch piece of honeycomb on top of the first layer. Alternate them to form the base.

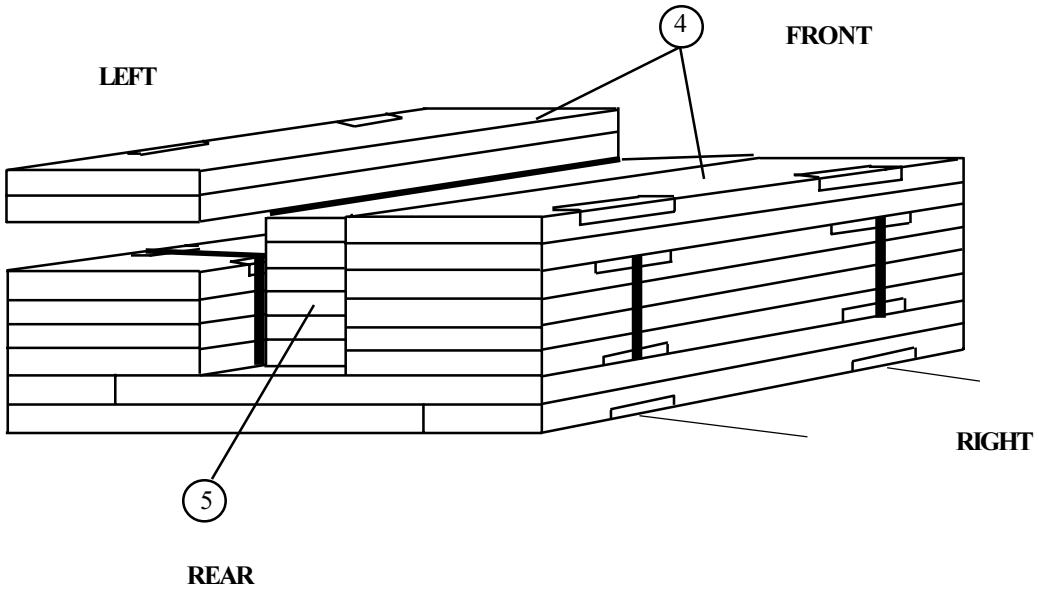
2. Place a length of cloth backed tape on the bottom outer edges of the base. Position two 13-foot lengths of type III nylon cord under the base aligned with the strips of tape.

3. Form two stacks by gluing four pieces of 18- by 44-inch honeycomb together. Place a sufficient length of cloth backed tape on all edges as shown above. Run a length of 1/2-inch tubular nylon over the strips of tape and around the stack. Secure and tie with a square knot on the outside of the stack. Place the stack flush with the base. **(Do not glue to base.) (The 1/2-inch tubular nylon ties, PULL-OUT AIDS, are to assist in pulling the stacks out from under the vehicle during derigging.)**

4. Form two stacks by gluing two pieces of 18- by 44-inch honeycomb together. Place a length of cloth backed tape on each end as shown above. Position each stack on top of the existing stacks. **(Do not glue.)**

Figure 4-6. Stack 4 prepared

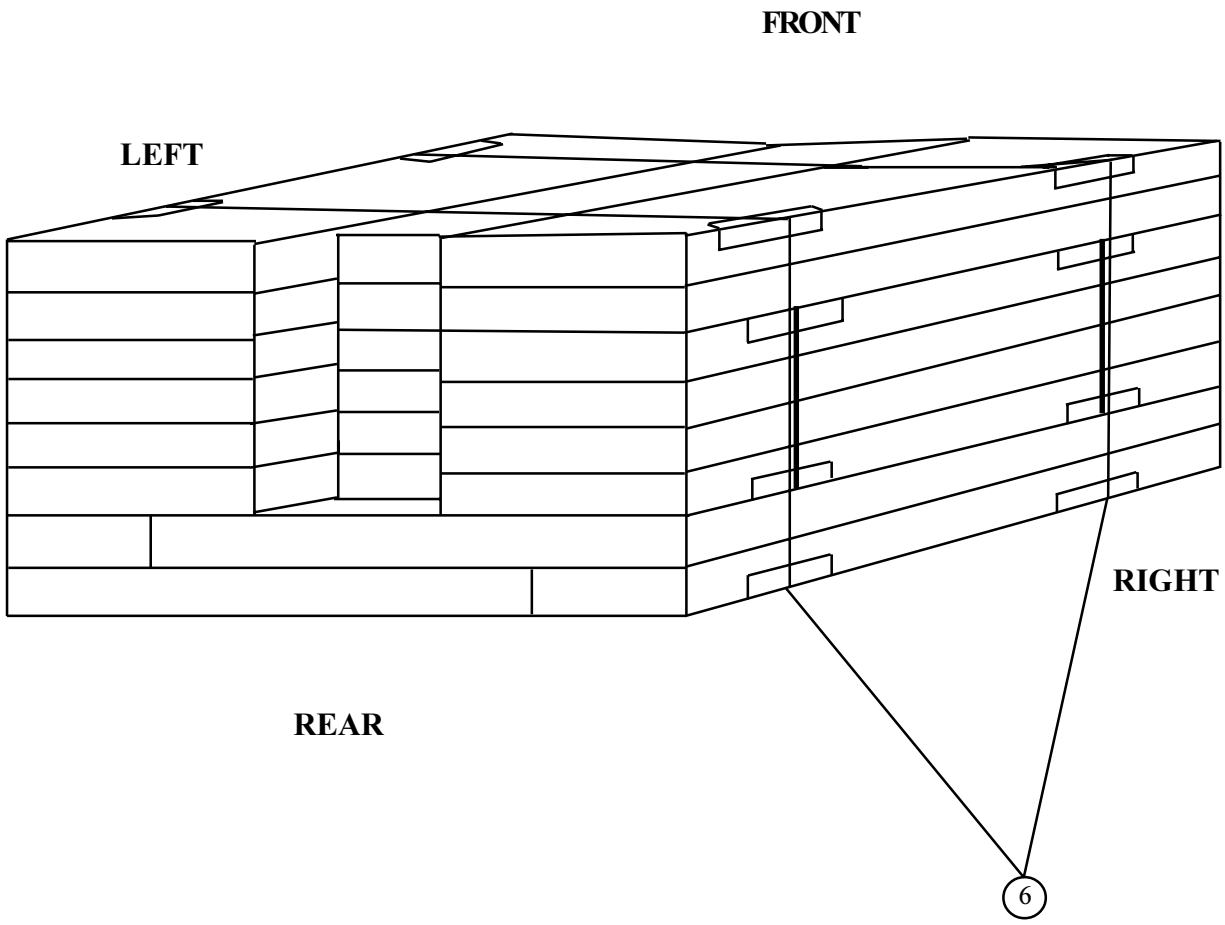
Note: This drawing is not drawn to scale.



(5) Form a stack by gluing six 12- by 36-inch pieces of honeycomb together. Position the stack between the two stacks in step 4, flush with the rear edge of the base. **(Do not glue to base.)**

Figure 4-6. Stack 4 prepared (Continued)

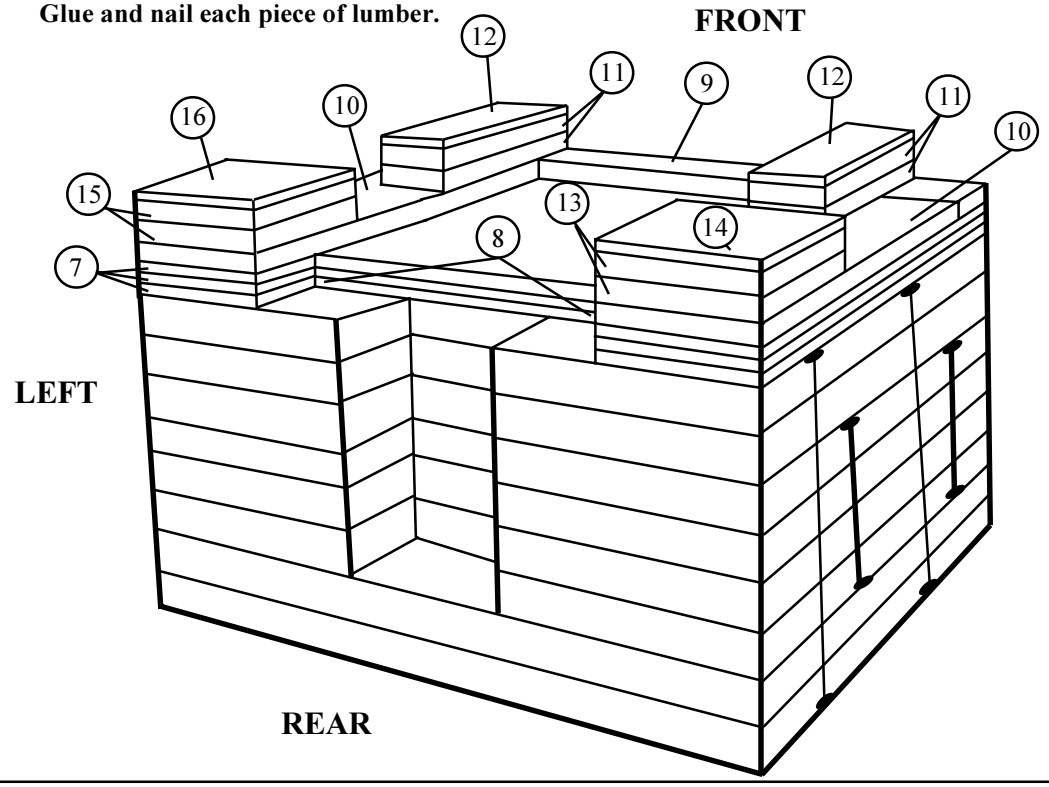
Note: This drawing is not drawn to scale.



(6) Secure and tie the type III nylon cord around the completed honeycomb stack.

Figure 4-6. Stack 4 prepared (Continued)

Notes: This drawing is not drawn to scale.
Glue and nail each piece of lumber.



(7) Glue and nail three 48- by 44-inch pieces of 3/4-inch plywood together. **(Do not build lumber stack on honeycomb stack. The lumber will be placed on the stack later.)**

(8) Cut a 26-inch long, 7-inch deep cutout in the center of the 48-inch side of the plywood.

(9) Glue and nail one 2- by 6- by 48-inch piece of lumber flush along the rear left edge of the plywood.

(10) Glue and nail one 2- by 12- by 38 1/2-inch piece of lumber flush with left side and another on the right side of the plywood and the end flush against the 2- by 6- by 48-inch piece of lumber in step 9.

(11) Glue and nail two 2- by 6- by 21-inch pieces of lumber flush with the right inside edge of the 2- by 12- by 38 1/2-inch lumber and flush with the rear of the 2- by 6- by 48-inch piece of lumber. Glue and nail two pieces flush with the left inside edge of the 2- by 12- by 38 1/2-inch lumber and flush with the rear of the 2- by 6- by 48-inch piece of lumber. **Stack shown is for truck without winch. When truck has a winch, use three 2- by 6-by 21-inch pieces of lumber glued to the outside on the left side instead of two pieces of lumber.**

(12) Center, glue and nail one 5 1/2- by 21-inch piece of 3/4-inch plywood on top of each of the two pieces of lumber in step 11.

(13) Glue and nail two 2- by 12- by 12-inch pieces of lumber flush with the right front corner on top of the 2- by 12- by 38 1/2-inch piece of lumber in step 10.

(14) Center, glue and nail one piece of 11 1/2- by 12-inch piece of 3/4-inch plywood on top of the two pieces of lumber in step 13.

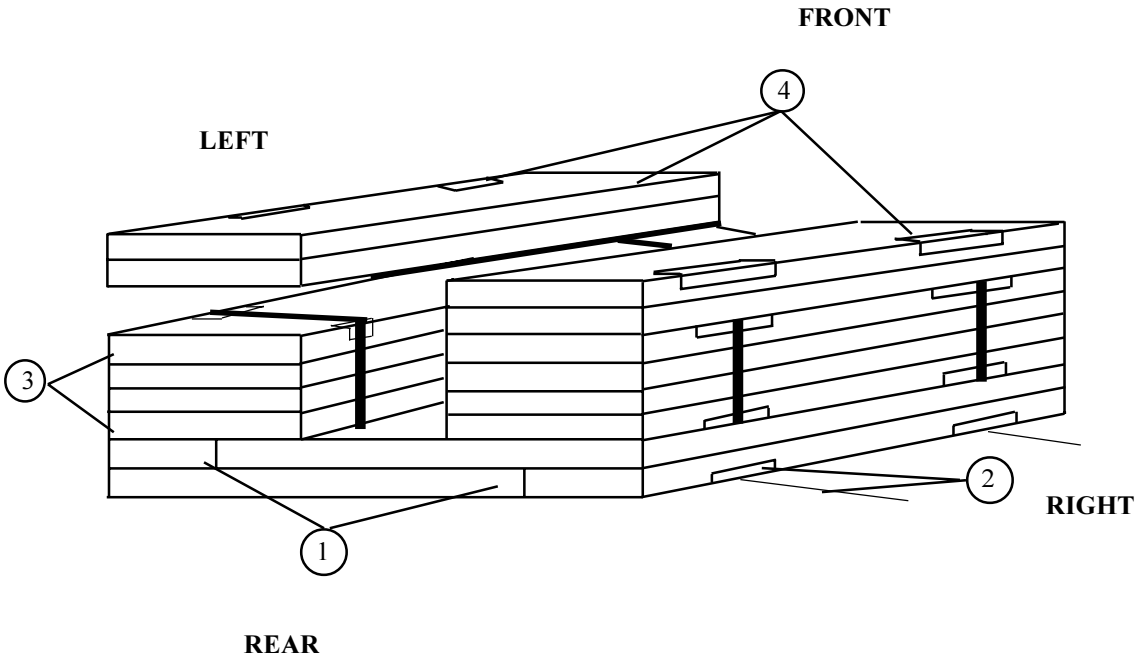
(15) Glue and nail two 2- by 12- by 12-inch pieces of lumber flush with the left front corner on top of the 2- by 12- by 38 1/2-inch piece of lumber in step 10.

(16) Center, glue and nail one piece of 11 1/2- by 12-inch piece of 3/4-inch plywood on top of each of the two pieces of lumber in step 15.

(17) Glue the completed lumber to the honeycomb base.

Figure 4-6. Stack 4 prepared (Continued)

Note: This drawing is not drawn to scale.



1. Position a 36- by 46-inch piece of honeycomb beside a 12- by 46-inch piece of honeycomb. Glue a 36- by 46-inch piece of honeycomb and a 12- by 46-inch piece of honeycomb on top of the first layer. Alternate them to form the base.

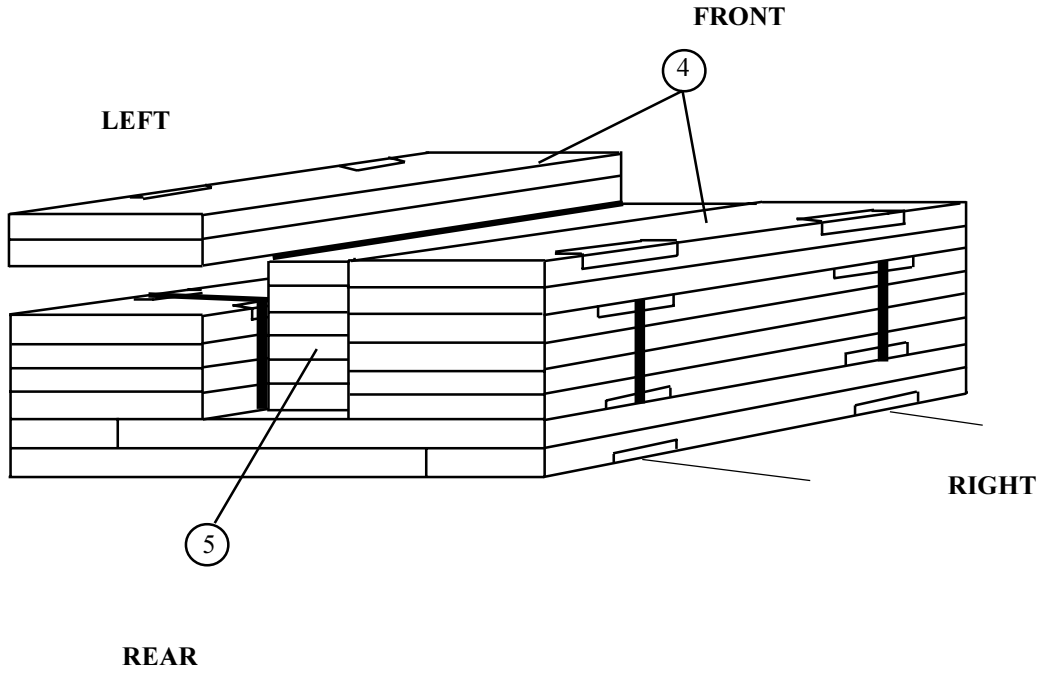
2. Place a length of cloth backed tape on the bottom outer edges of the base. Position two 13-foot lengths of type III nylon cord under the base. Align with the strips of tape.

3. Form two stacks by gluing four pieces of 18- by 46-inch honeycomb together. Place a sufficient length of cloth backed tape on all edges as shown above. Run a length of 1/2-inch tubular nylon over the strips of tape and around the 18- by by 46-inch stacks. Secure and tie with a square knot on the outside of the stack. Place the stack flush with the base. **(Do not glue to base.) (The 1/2-inch tubular nylon ties, PULL-OUT AIDS, are to assist in pulling the stacks out from under the vehicle during derigging.)**

4. Form two stacks by gluing two pieces of 18- by 46-inch honeycomb together. Place a length of cloth backed tape on each end. Position each stack on top of the existing stacks. **(Do not glue.)**

Figure 4-7. Stack 5 prepared

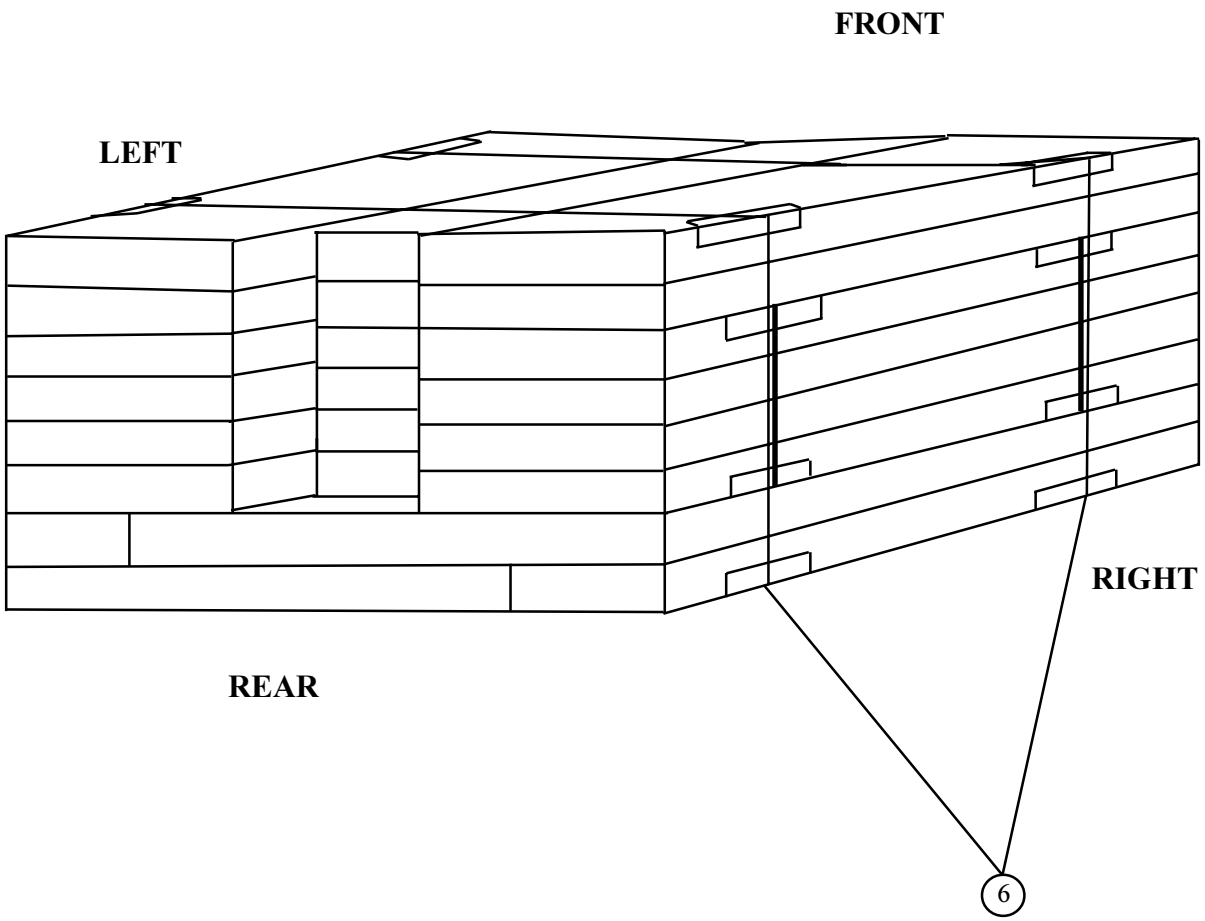
Note: This drawing is not drawn to scale.



(5) Form a stack by gluing six 12- by 36-inch pieces of honeycomb together. Position the stack between the two stacks in step 4, flush with the rear edge of the base. **(Do not glue to base.)**

Figure 4-7. Stack 5 prepared (Continued)

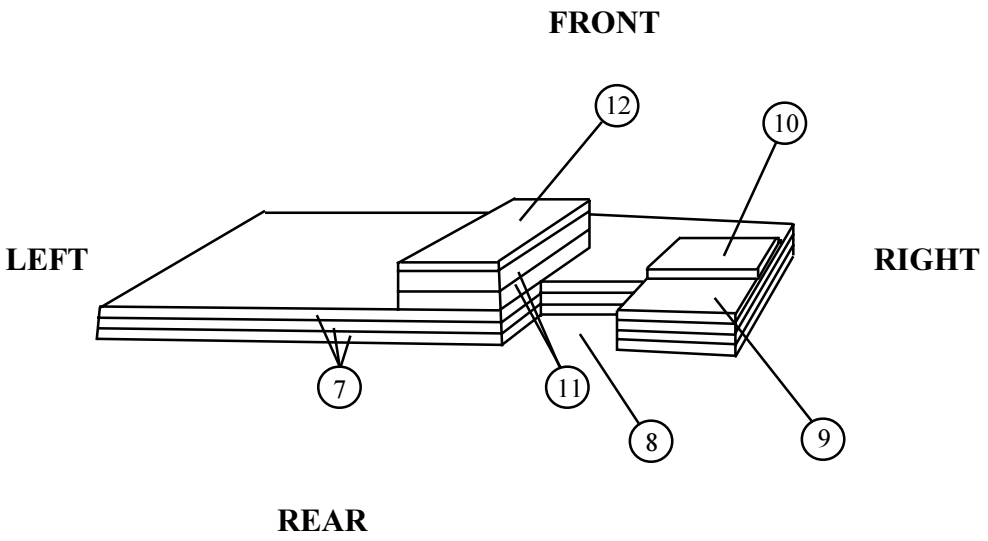
Note: This drawing is not drawn to scale.



(6) Secure and tie the type III nylon cord around the completed honeycomb stack.

Figure 4-7. Stack 5 prepared (Continued)

Notes: Place the plywood on the honeycomb stack after positioning stack on the platform.
This drawing is not drawn to scale.



(7) Glue and nail together three 48- by 46-inch pieces of 3/4-inch plywood.

(8) Cut an 8-inch long and 12-inch deep cutout in the rear 48-inch edge of the plywood 8 inches from the right side.

(9) Glue and nail one 8- by 16- by 3/4-inch piece of plywood on top of the plywood flush with the rear and right edges.

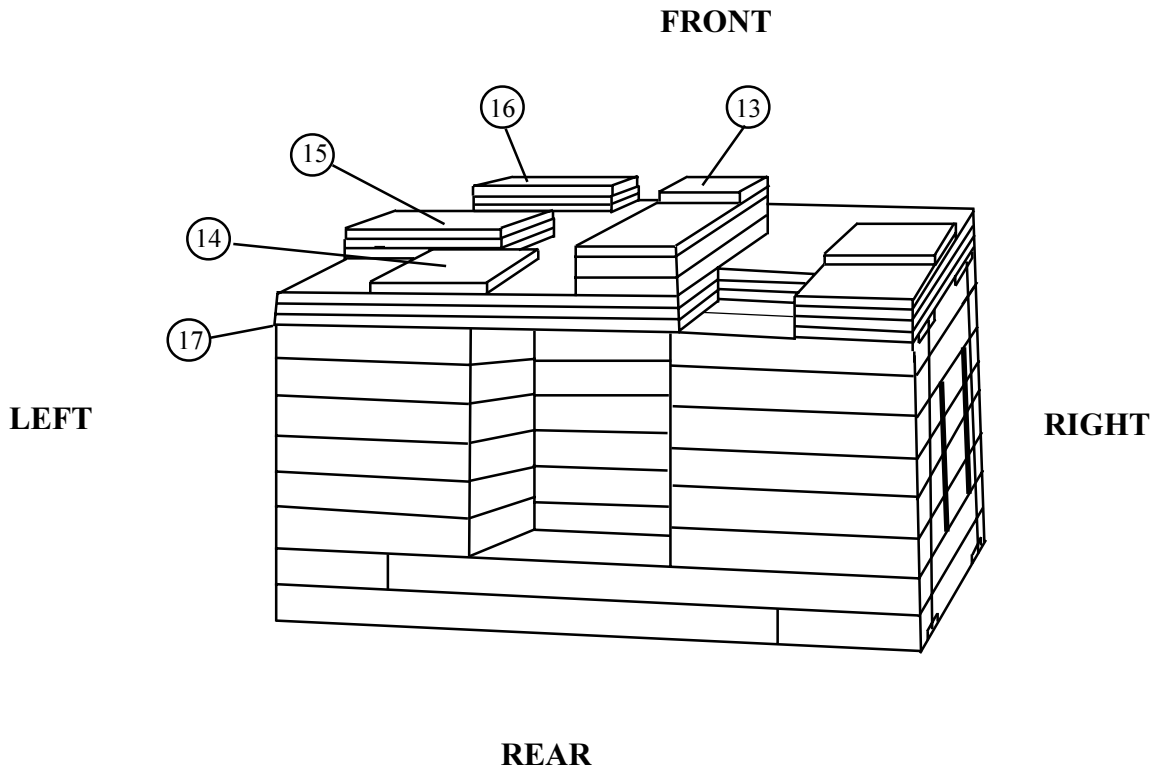
(10) Glue and nail one 8- by 6- by 3/4-inch piece of plywood on top of the plywood in step 9 flush with the front and right edges.

(11) Glue and nail two 2- by 8- by 26 1/2-inch pieces of lumber flush with the rear edge of the plywood and even with the left side of the cutout.

(12) Glue and nail one 7 1/2- by 26 1/2-inch piece of 3/4-inch plywood on top of the lumber in step 11 flush with the front edge of the lumber.

Figure 4-7. Stack 5 prepared (Continued)

Note: This drawing is not drawn to scale.



(13) Glue and nail one 7 1/2- by 8-inch piece of 3/4-inch plywood on top of the plywood in step 12 flush with the front edge of the lumber.

(14) Glue and nail one 10- by 10-inch piece of 3/4-inch plywood on top of the plywood flush with the rear edge and 8 inches from the left edge.

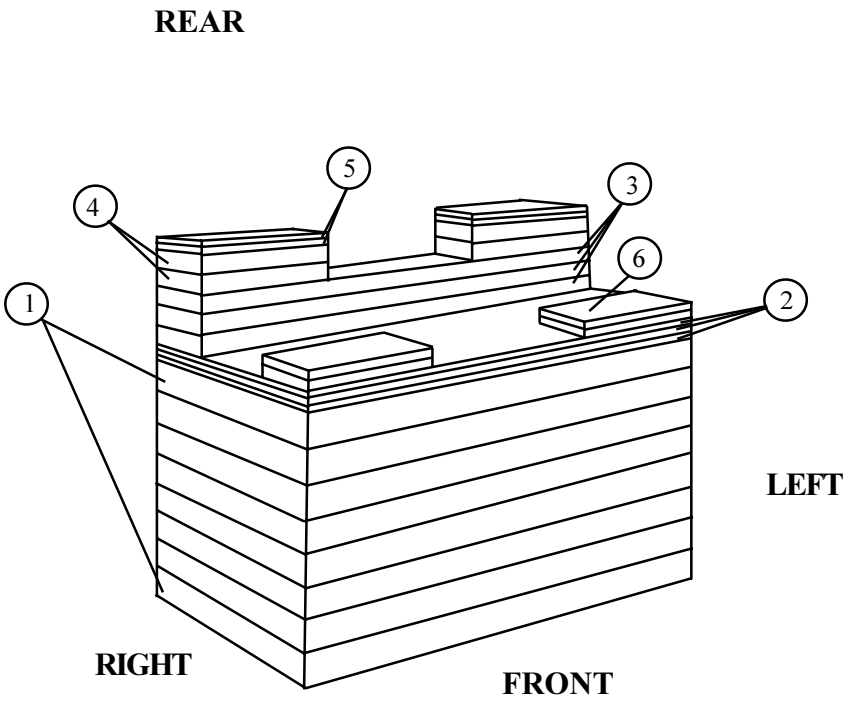
(15) Glue and nail three 14- by 12-inch pieces of 3/4-inch plywood on top of the plywood 12-inch side flush against the left edge and flush against the front edge of the plywood in step 14.

(16) Glue and nail three 14- by 12-inch pieces of 3/4-inch plywood on top of the plywood 12-inch side flush with the left front corner.

(17) Glue the completed lumber to the honeycomb base.

Figure 4-7. Stack 5 prepared (Continued)

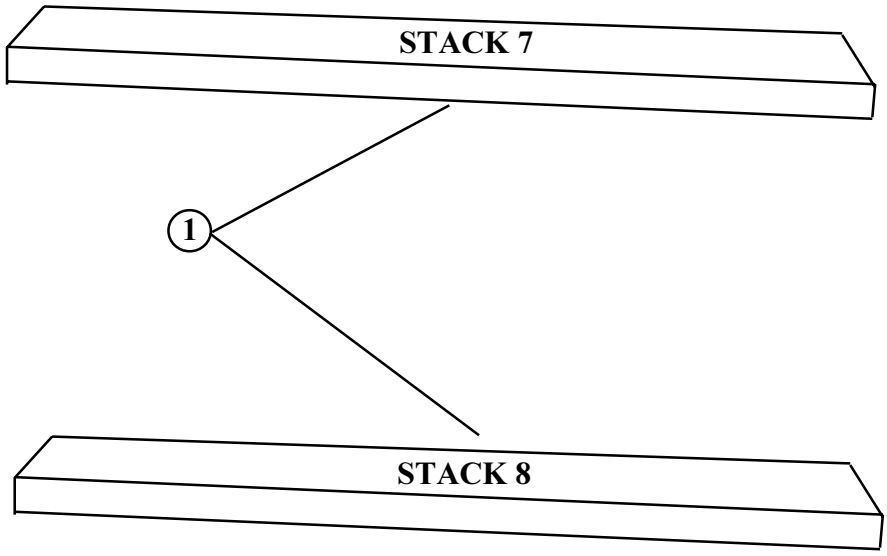
Note: This drawing is not drawn to scale.



1. Glue eight 43- by 24-inch pieces of honeycomb together to form a base.
2. Glue and nail three 43- by 24-inch pieces of 3/4-inch plywood together.
3. Glue and nail three 2- by 8- by 43-inch pieces of lumber. Center, glue and nail each piece of lumber flush with the rear edge of the plywood.
4. Glue and nail two 2 piece stacks of 2- by 8- by 12-inch lumber. Glue and nail one stack flush with the right edge and one stack flush with left edge of the lumber in step 3.
5. Glue two 2 piece stacks of 7 1/2- by 12-inch pieces of 3/4-inch plywood. Glue and nail one stack on top of the right and left stacks of lumber in step 4.
6. Glue two 2 piece stacks of 14- by 7-inch pieces of 3/4-inch plywood. Glue and nail each 14-inch sided stack flush, with the right and left front corners.
7. Glue the completed lumber to the honeycomb base.

Figure 4-8. Stack 6 prepared

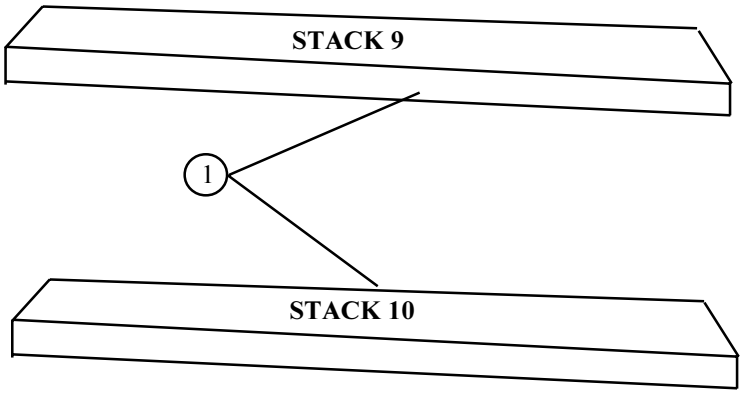
Note: This drawing is not drawn to scale.



(1) Cut two 18- by 96-inch pieces of honeycomb.

Figure 4-9. Stacks 7 and 8 prepared

Note: This drawing is not drawn to scale.

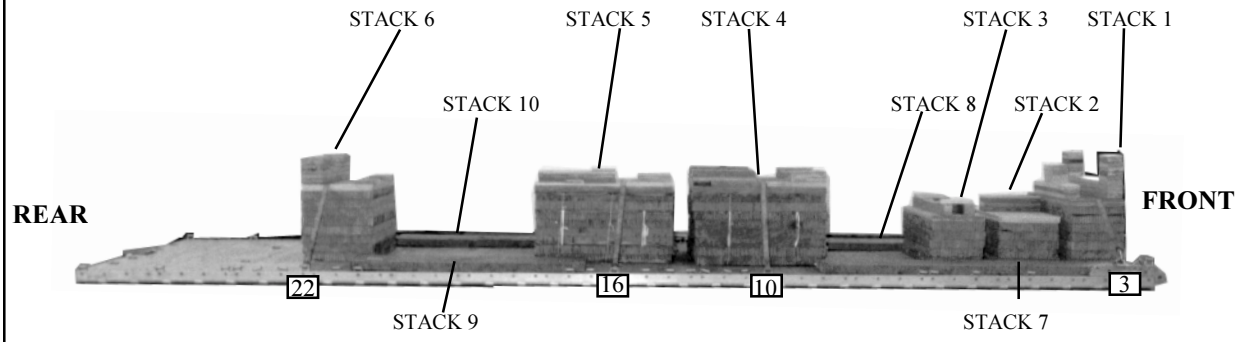


(1) Cut two 18- by 74-inch pieces of honeycomb.

Figure 4-10. Stacks 9 and 10 prepared

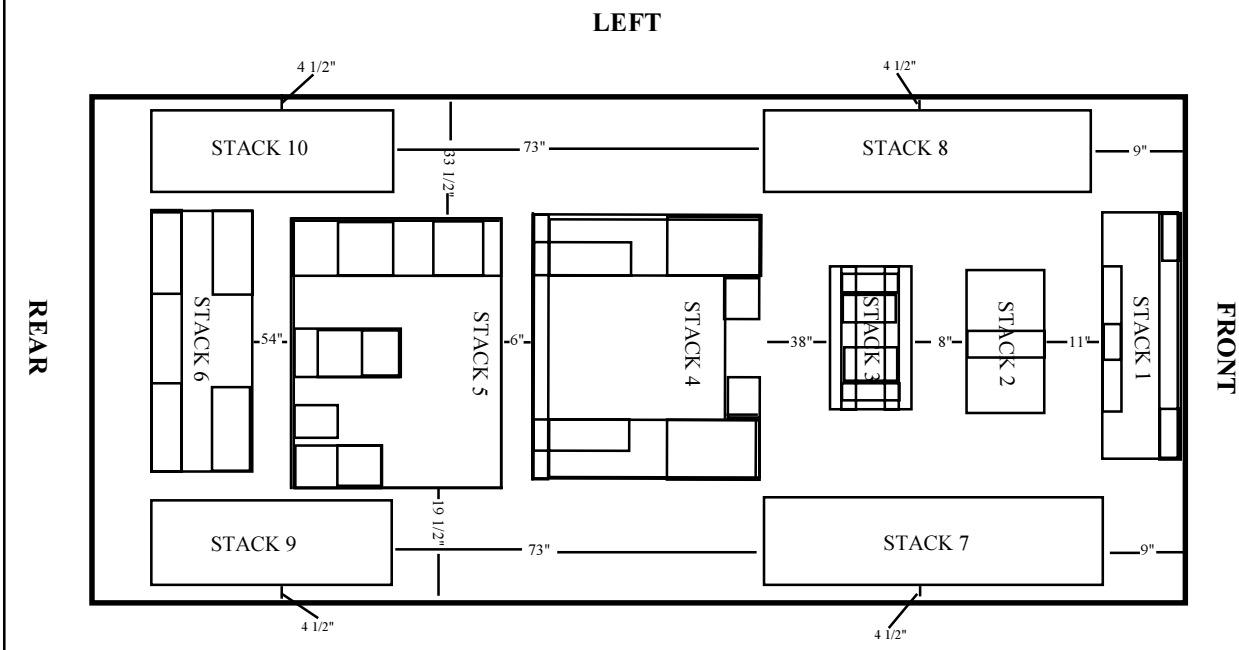
4-4. Positioning Honeycomb Stacks

Position the honeycomb stacks as shown in *Figure 4-11.*



SIDE VIEW

Note: This drawing is not drawn to scale.



TOP VIEW

Figure 4-11. Honeycomb stacks positioned on platform

Stack Number	Instructions
1	Position stack 1, centered and flush with the front of the platform. Secure the stack by passing a 15-foot tie-down lashing through clevis 3A and through its own D-ring. Route the lashing over the stack and secure it with a D-ring and loadbinder to clevis 3.
2	Position stack 2, centered and 11 inches from stack 1.
3	Position stack 3, centered and 8 inches from stack 2.
4	Position stack 4, offset 3 inches to the left of center and 38 inches from stack 3. Secure the stack by passing a 15-foot tiedown lashing through clevis 10A and through its own D-ring. Route the lashing over the stack and secure it with a D-ring and a loadbinder to clevis 10.
5	Position stack 5, offset 33 1/2 inches from the left side, 19 1/2 inches from the right side rail and 6 inches from stack 4. Secure the stack by passing a lashing through clevis 16A and it's own D-ring. Route the lashing over the stack and secure it with a D-ring and a loadbinder to clevis 16.
6	Position stack 6, centered and 54 inches from stack 5. Secure the stack by passing a 15-foot tiedown lashing through clevis 22A and then through its own D-ring. Route the lashing over the stack and secure the end with a D-ring and loadbinder to clevis 22.
7	Position stack 7, 9 inches from the front edge of the platform and 4 1/2 inches from the right platform side rail.
8	Position stack 8, 9 inches from the front edge of the platform and 4 1/2 inches from the left platform side rail.
9	Position stack 9, 73 inches from stack 7 and 4 1/2 inches from the right platform side rail.
10	Position stack 10, 73 inches from stack 8 and 4 1/2 inches from the left platform side rail.

Figure 4-11. Honeycomb stacks positioned on platform (Continued)

4-5. Preparing Truck

Prepare the M1094 dump truck as shown in *Figure 4-12* and as described below.

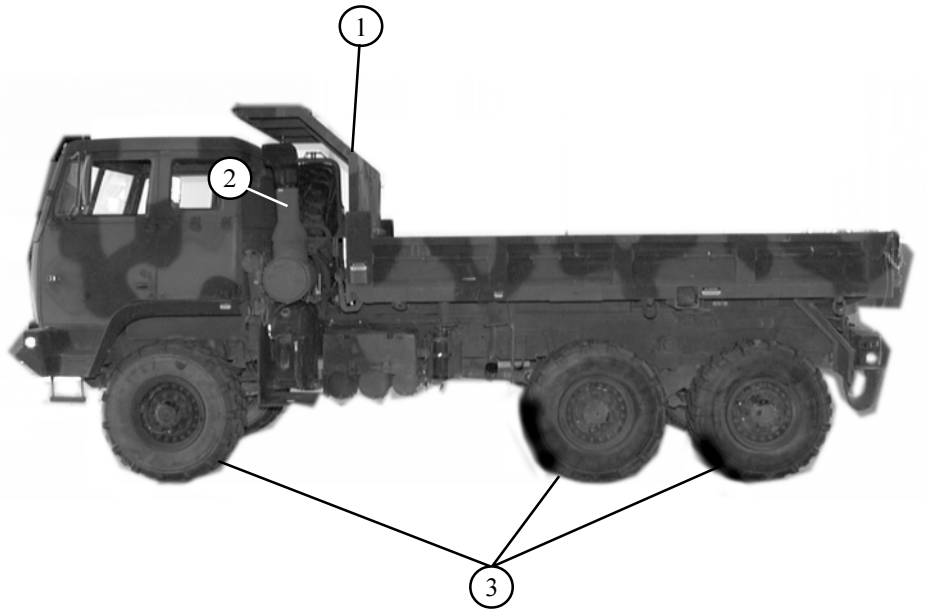
a. Make sure the fuel tank is not more than 3/4 full.

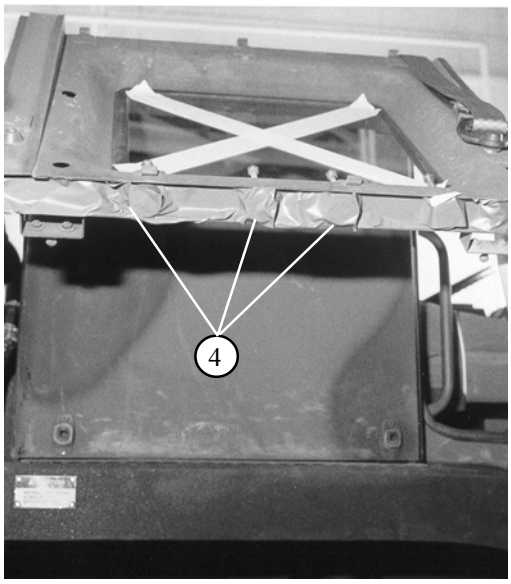
b. Make sure the batteries and compartment comply with AFJMAN 24-204/TM 38-250.

c. Remove radio mount if equipped and secure in cab storage box, padded with cellulose wadding and the remaining space filled with honeycomb to prevent movement.

The following is a list of materials used for truck preparation.

PIECES	WIDTH (inches)	LENGTH (inches)	MATERIAL
1	36	80	Honeycomb
2	18	60	Honeycomb
10	2- by 6	13 1/2	Lumber
2	4- by 4	6	Lumber
2	4- by 4	15	Lumber
4	2- by 4	6	Lumber
1	10	10	3/4-inch Plywood
3	2- by 6	6	Lumber
1	36	96	Honeycomb
1	4	6	Honeycomb
4	1/2	10	Bolts (washers and nuts)





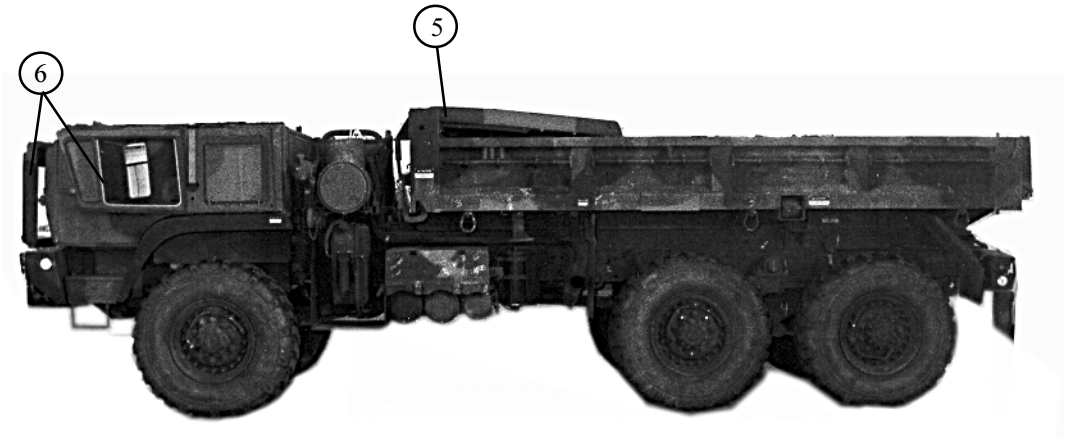
(1) Unpin the cab protector, rotate it into the truck bed and reinsert the pin.

(2) Remove the air intake and any external radio mounts on the cab.

(3) Deflate all tires to sand mode (22 PSI), allowing the vehicle to sit on the honeycomb stacks correctly.
Note: Verify each individual tire pressure for accuracy.

(4) Remove the roof and secure the roof bolts with tape.

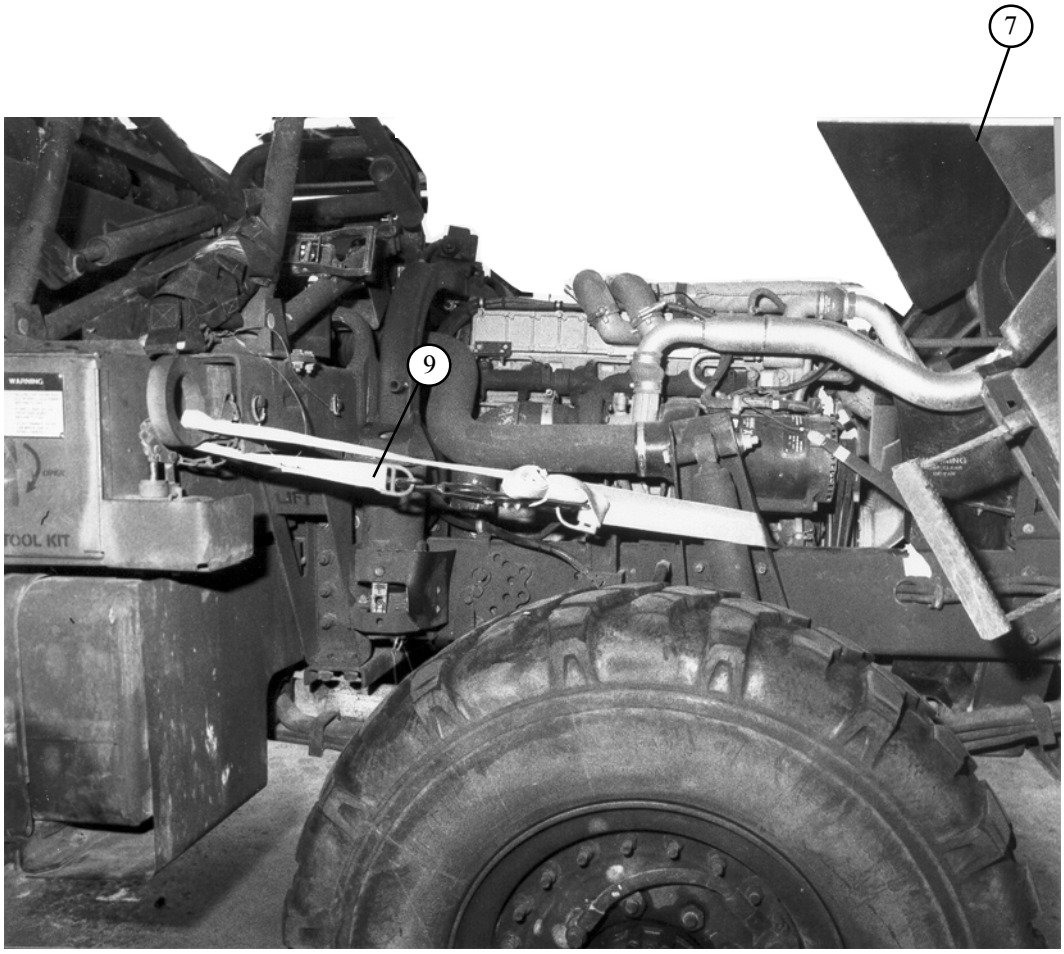
Figure 4-12. Truck prepared



(5) Place the roof on the cab protector in the truck bed with lights facing forward. Secure corners with 1/2-inch tubular nylon.
Note: The cab protector, roof and spare tire will be stowed with the accompanying load.

(6) Roll windows down and then fold them down.

Figure 4-12. Truck prepared (Continued)



(7) Place the cab compartment in the raised position.

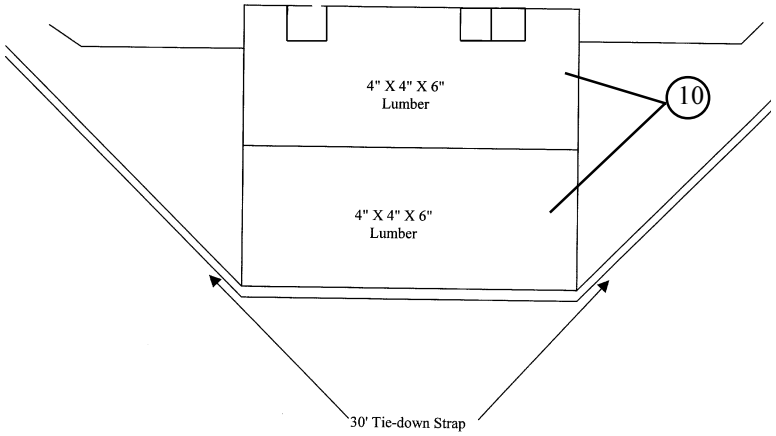
(8) Tape the spare tire strap to the spare tire carrier. (Not shown).

(9) Route a 15-foot tiedown lashing through the right side lifting point, in front of the shock absorber, over the frame, behind/under the motor mount, back over the frame, back in front of the shock absorber, and back to the lifting point. Secure the lashing with a D-ring and loadbinder. (Ensure lashing runs underneath all hoses and wiring). Repeat for the left side.

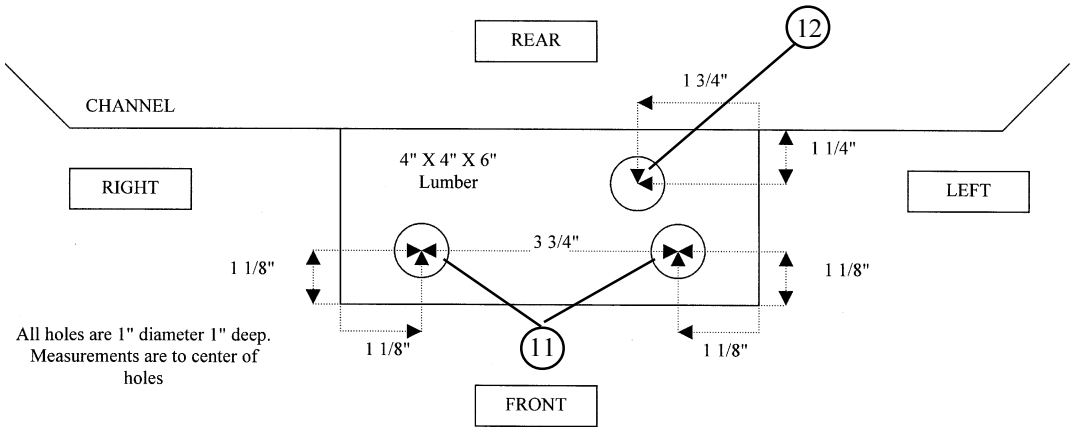
Figure 4-12. Truck prepared (Continued)

Note: This drawing is not drawn to scale.

REAR MOTOR SUPPORT
REAR VIEW



REAR MOTOR SUPPORT
TOP VIEW

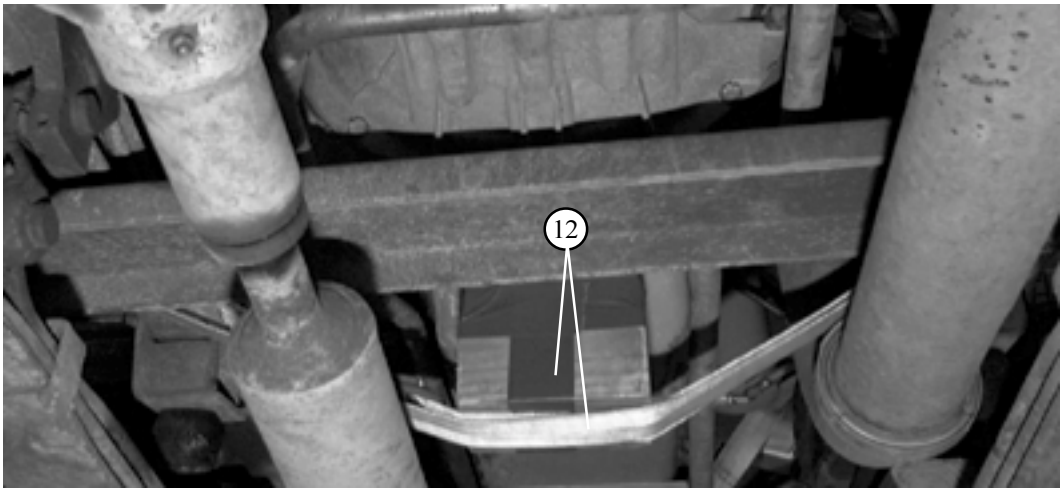


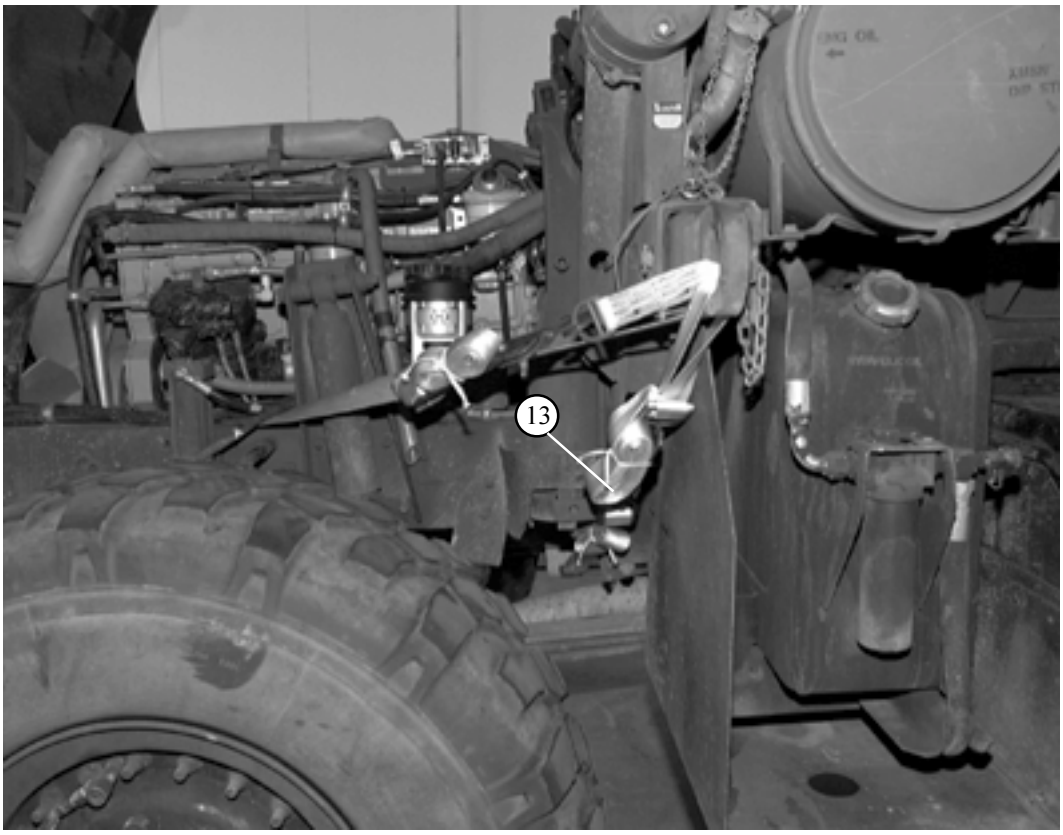
(10) Cut two 4- by 4- by 6-inch pieces of lumber.

(11) Countersink three holes 1-inch in diameter, 1-inch deep. Drill one hole 1 1/8 inch from the left and front edge. Drill another hole 1 1/8 inch from the right and front edge. Ensure there are 3 3/4 inches between the first two holes.

(12) Drill the last hole 1 1/4 inch from the rear edge and 1 3/4 inch from the left edge in one piece of 4-by 4- by 6-inch lumber. Place the other 4 - by 4- by 6-inch piece of lumber under the first piece of lumber and tape them together with cloth-backed tape leaving the holes exposed.

Figure 4-12. Truck prepared (Continued)

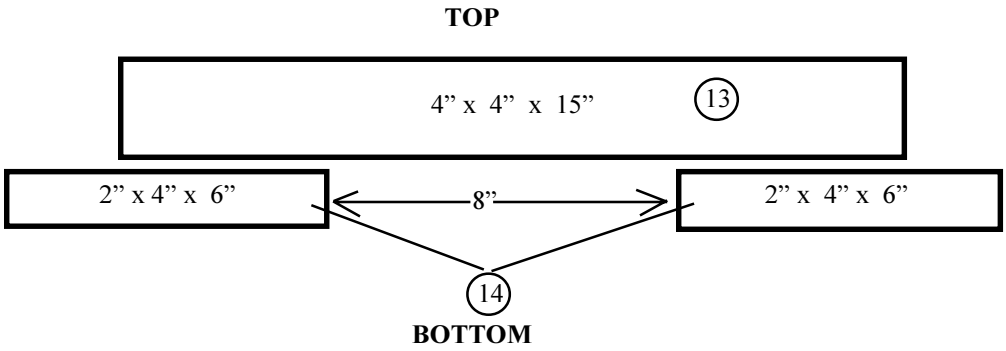




(13) Place the countersunk holes of the 4- by 4- by 6-inch piece of lumber over the bolts in the bell housing. Route a 30-foot lashing through the right side lifting point under the 4- by 4- by 6-inch piece of lumber and through the left side lifting point, and back under the 4- by 4- by 6-inch piece of lumber. Secure with a D-ring and loadbinder.

Figure 4-12. Truck prepared (Continued)

Note: This drawing is not drawn to scale.

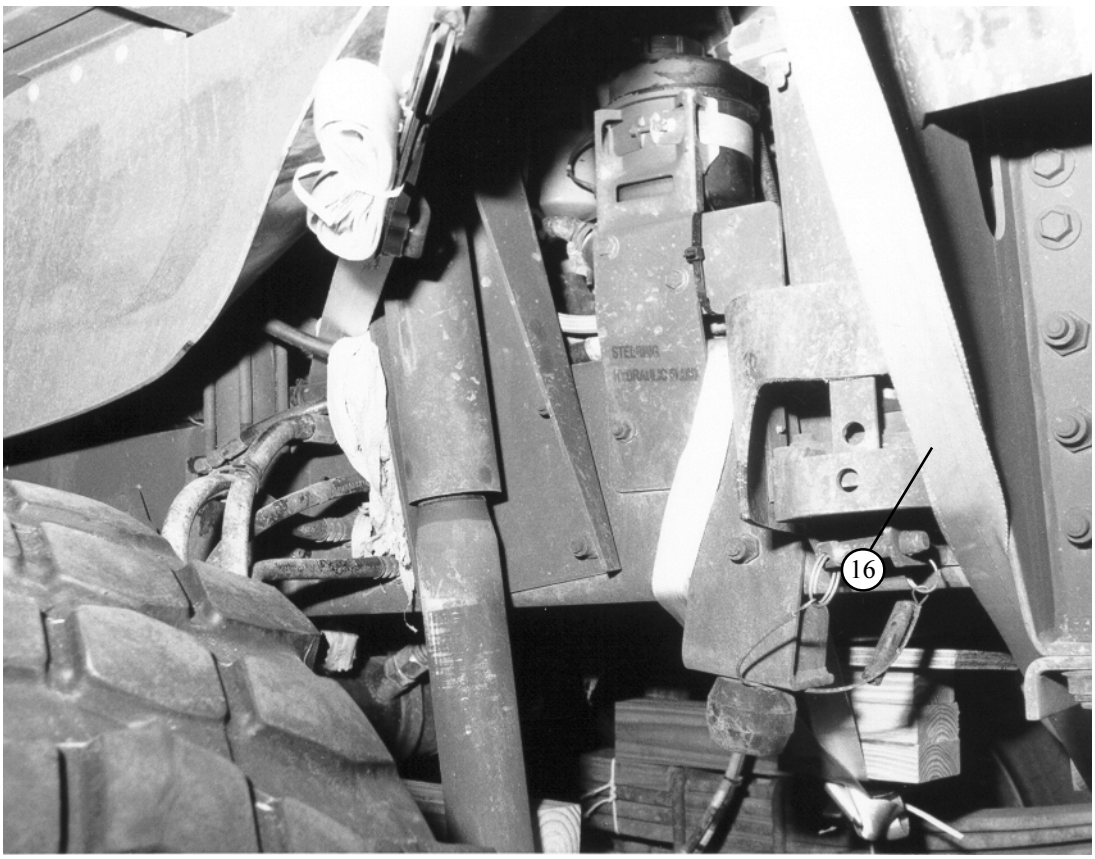


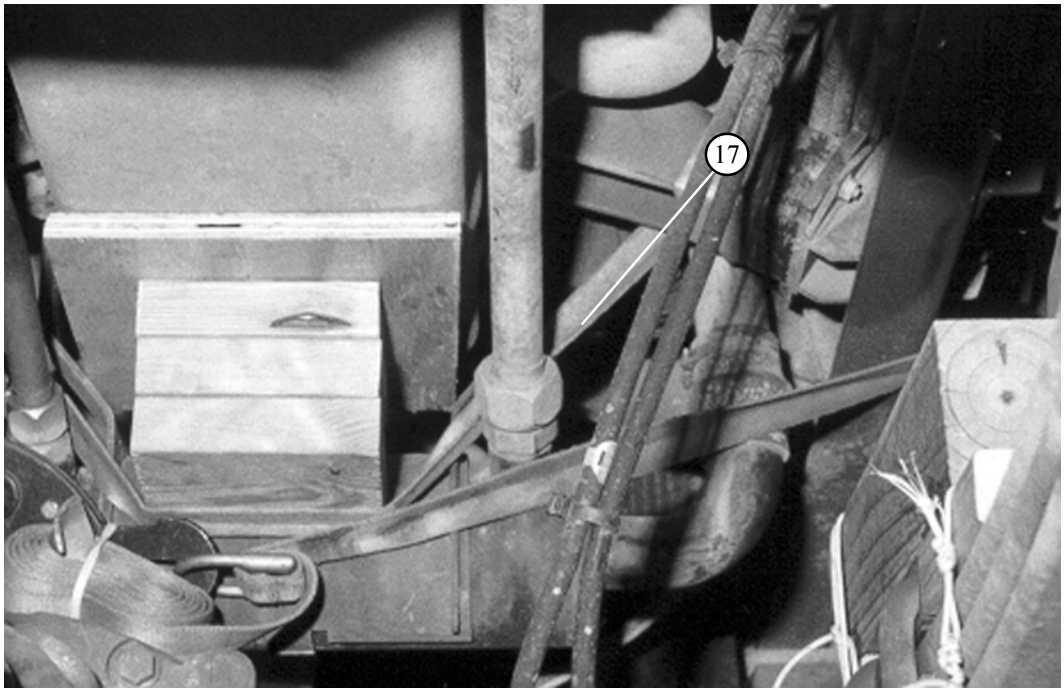
(14) Glue and nail together one 4- by 4- by 15-inch piece of lumber and two 2- by 4- by 6-inch pieces of lumber for each intermediate (middle) driving axle .

(15) Position them on top of the right and left leaf springs above the intermediate (middle) driving axle and secure with type III nylon cord.

(16) Nail together three 2- by 6- by 6-inch pieces of lumber. Center and glue a 10- by 10- by 3/4-inch piece of plywood to the three 2- by 6- by 6-inch pieces of lumber. Position against the oil pan and front of the engine.

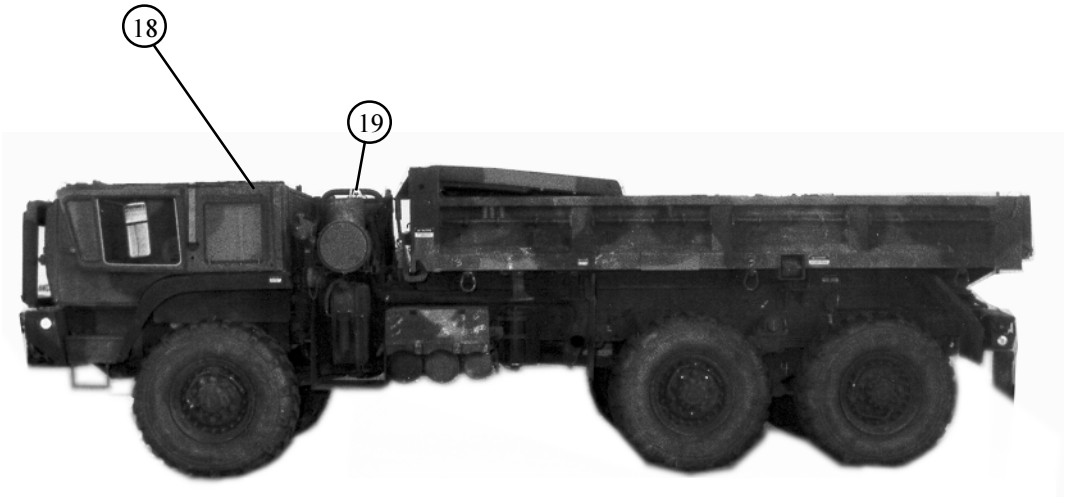
Figure 4-12. Truck prepared (Continued)

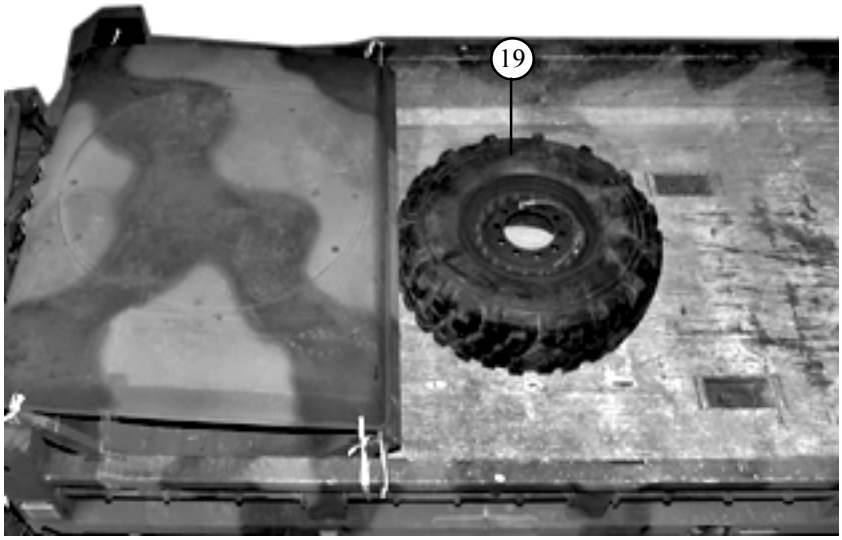




(17) Route a 15-foot lashing in rear of motor mounts around the left and right main frames (under all hoses). Secure the lumber and plywood with D-ring and loadbinder.

Figure 4-12. Truck prepared (Continued)

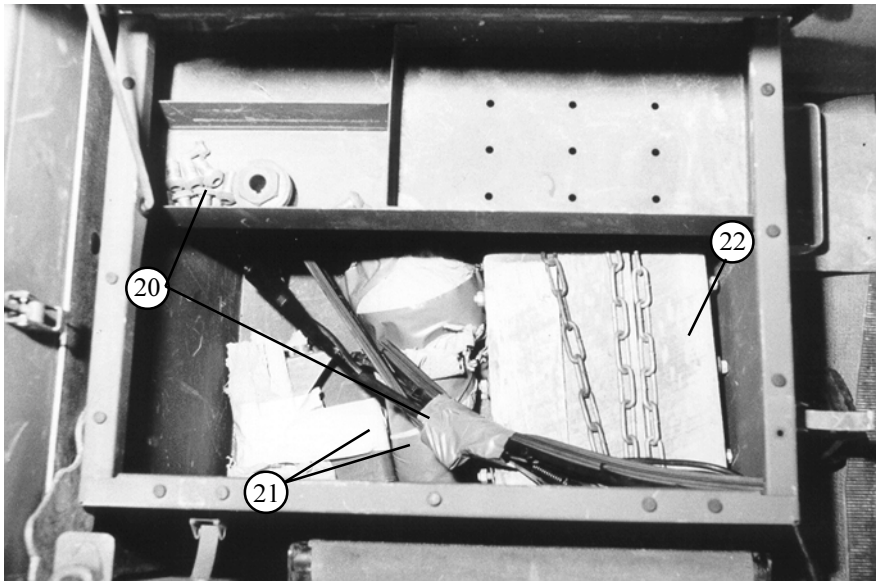


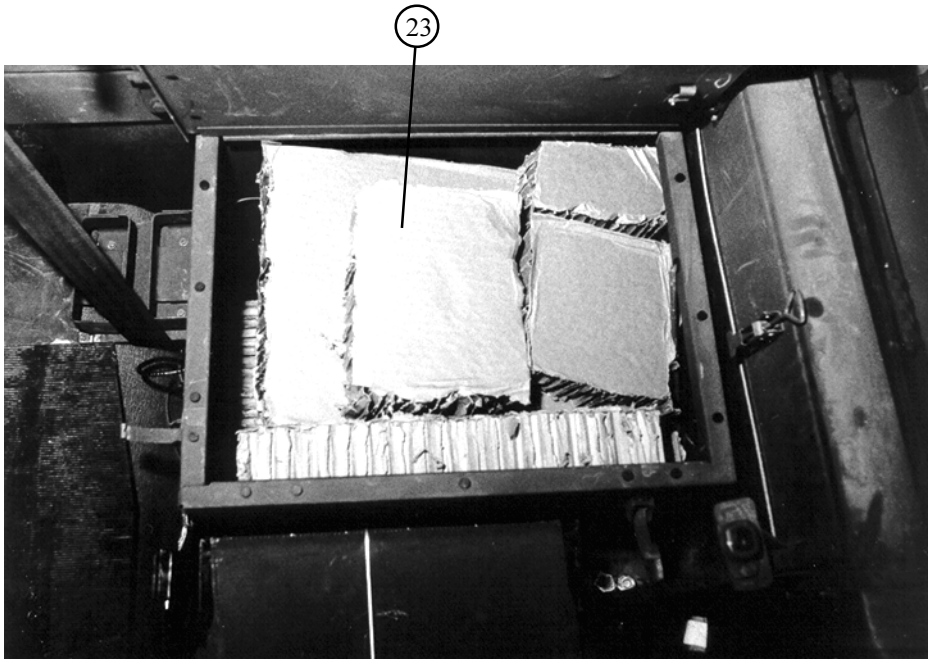


(18) Place the cab compartment in the lowered position.

(19) Remove the spare tire from the rack and place it in the bed behind the cab protector and roof. Leave the spare tire carrier down.

Figure 4-12. Truck prepared (Continued)





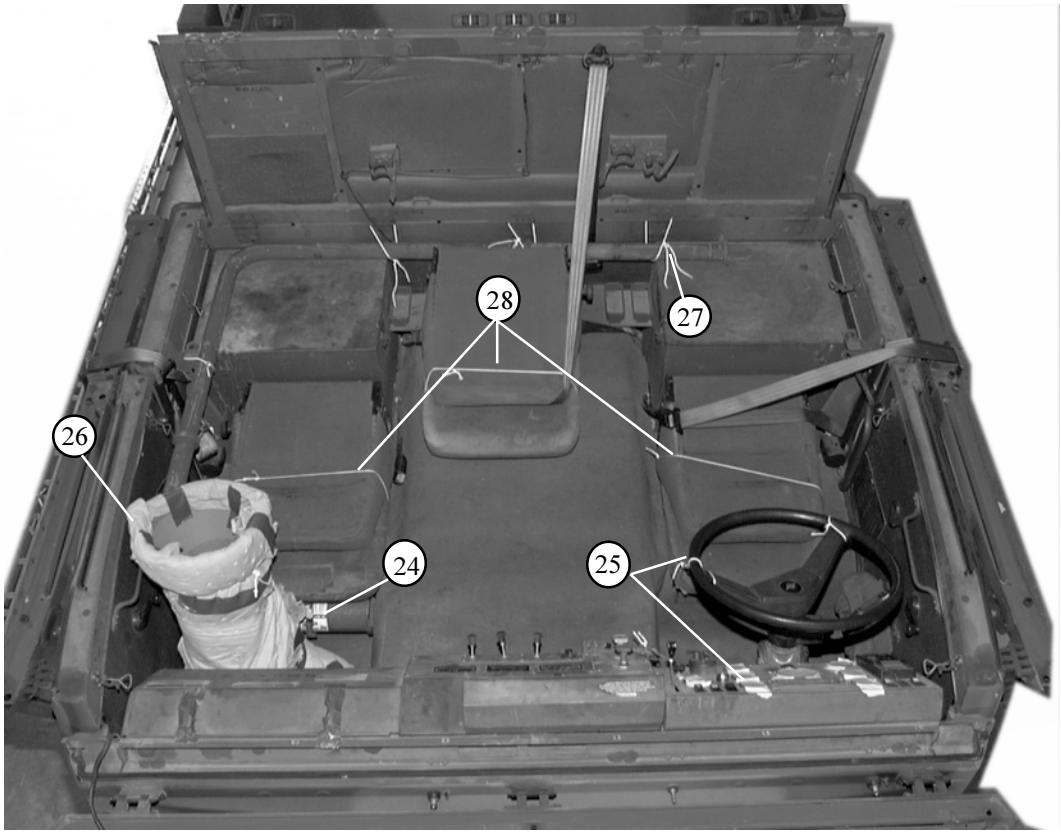
(20) Remove the windshield wipers and stow the bolts and blades in the passenger storage box.

(21) Remove the sun-visors and stow in the passenger storage box.

(22) Secure the chock blocks in the storage box in the cab.

(23) Fill the driver and passenger storage boxes with honeycomb. Secure the lid with type III nylon cord.

Figure 4-12. Truck prepared (Continued)



(24) Secure the fire extinguisher with type III nylon cord.

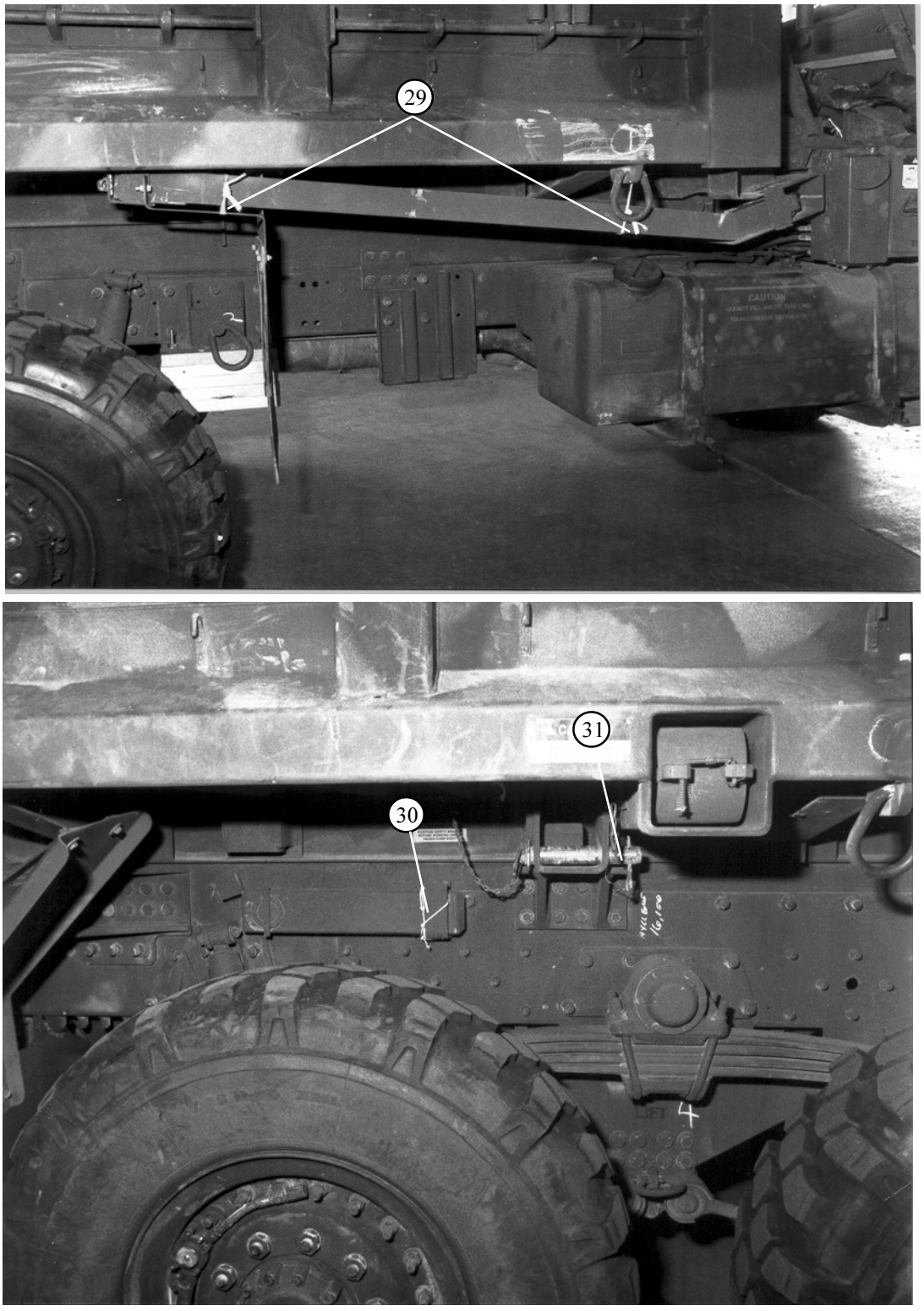
(25) Secure the steering wheel and hand throttle with type III nylon cord and tape all gauges.

(26) Wrap the air intake stack with cellulose wadding, stow and secure with type III nylon cord in the cab.

(27) Remove the davit. Secure it with type III nylon cord in the cab. (It is attached to the back of cab.)

(28) Lower the seats and secure with type III nylon cord.

Figure 4-12. Truck prepared (Continued)

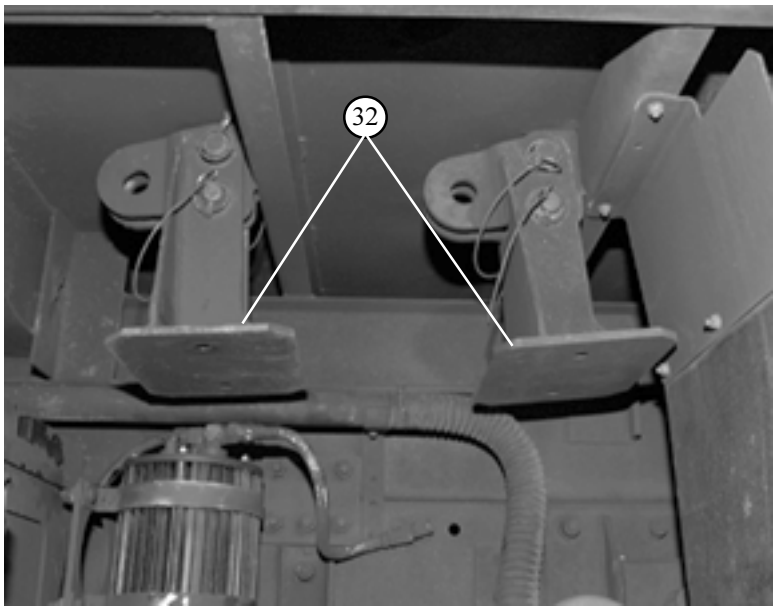


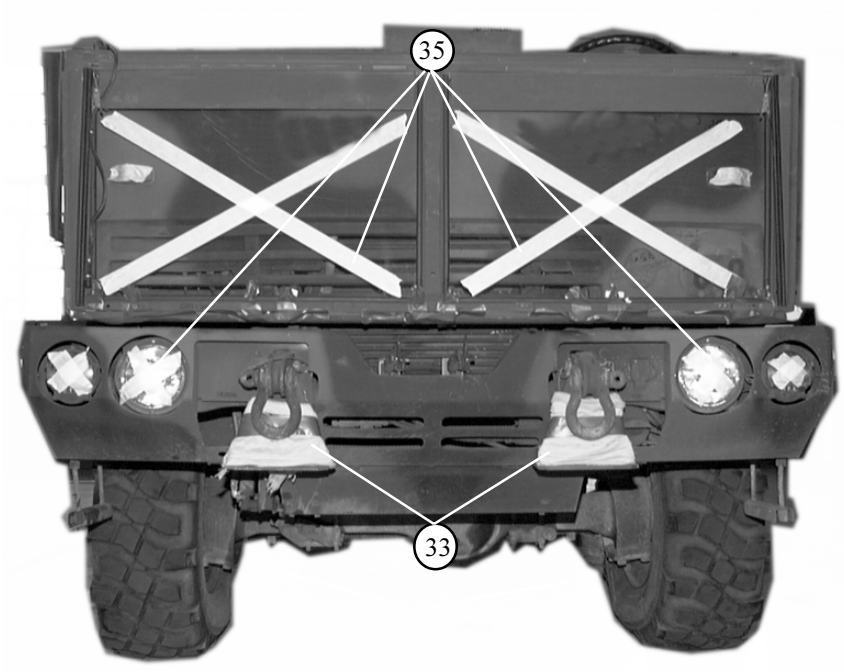
(29) Secure the ladder in place with a length of 1/2 -inch tubular nylon webbing.

(30) Safety tie the dump body braces on the right and left sides to their brackets with type III nylon cord.

(31) Ensure the dump body pins on both sides are installed in the locked position.

Figure 4-12. Truck prepared (Continued)





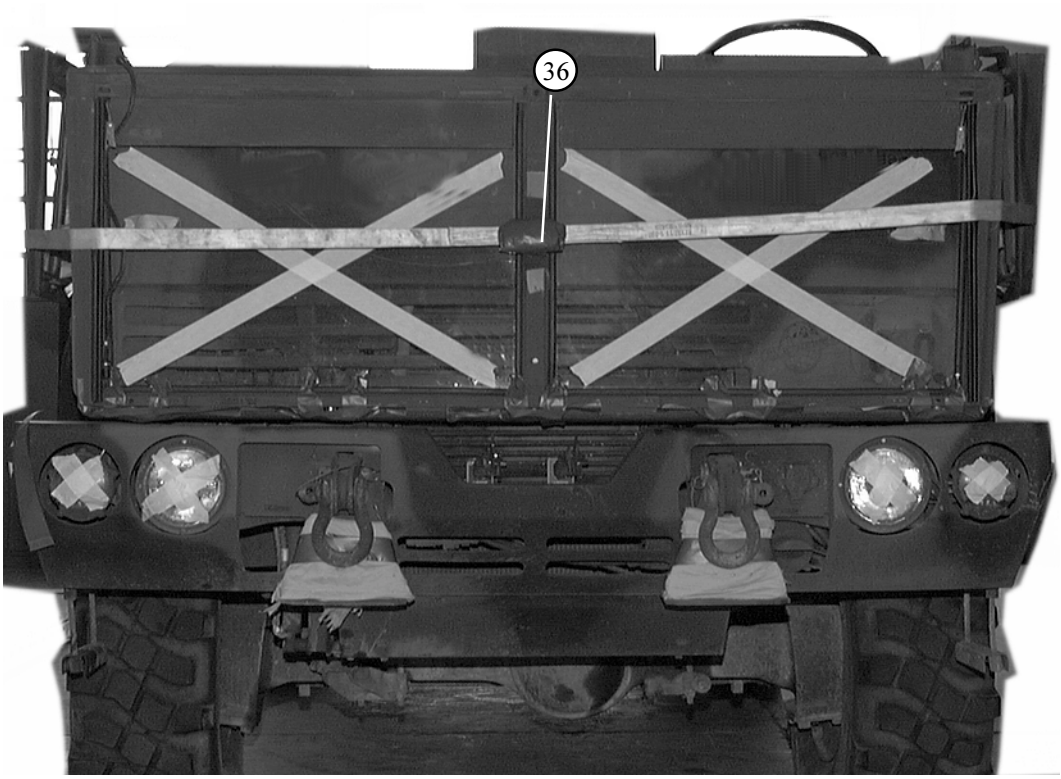
(32) Remove the front support brackets from under the bed (left side) of the truck.

(33) Install the front support brackets (lower holes) on the front of the vehicle and wrap the outside edges with cellulose wadding and tape, ensuring brackets are fully seated onto mounts.

(34) Safety tie the winch cable (if equipped) to the front bumper with type III nylon cord. (Not shown)

(35) Tape all lights, reflectors, and windows and pad mirrors with cellulose wadding and tape.

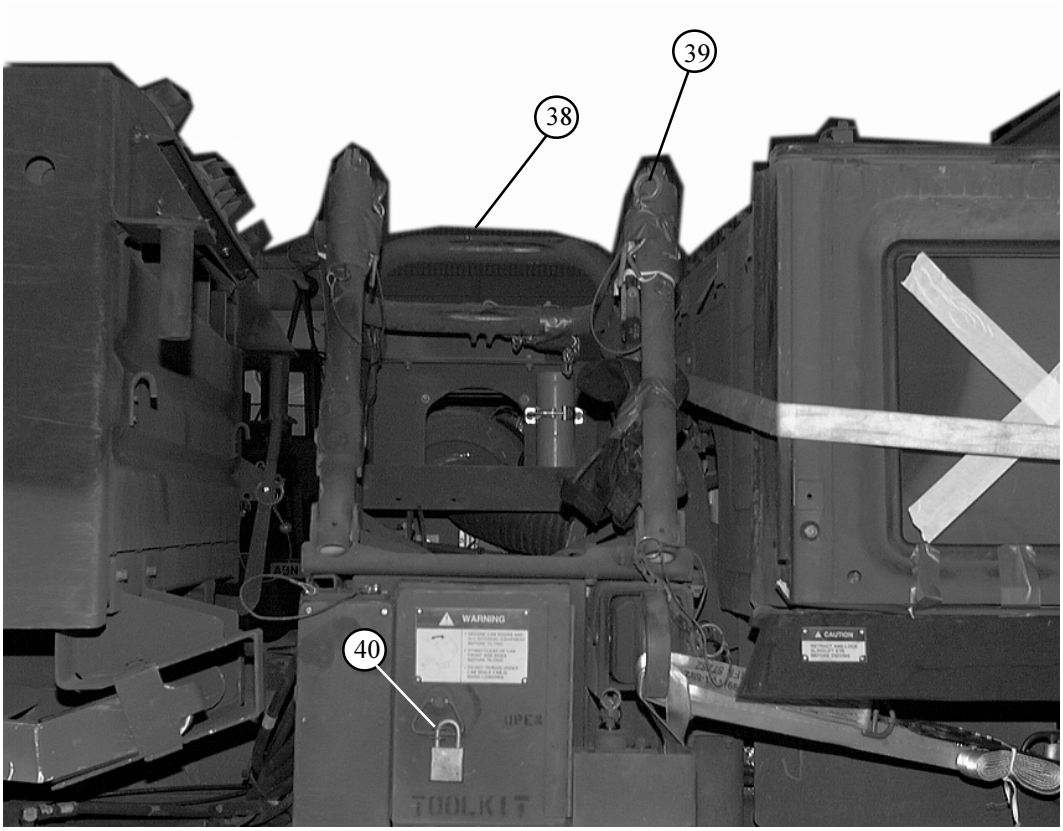
Figure 4-12. Truck prepared (Continued)



(36) Route a 30-foot lashing around the cab and secure with a loadbinder and D-rings in the rear of the cab. (Ensure D-rings do not come in contact with the glass).

(37) Secure the windshield to the left and right windshield stops with 1/2 -inch tubular nylon webbing.

Figure 4-12. Truck prepared (Continued)

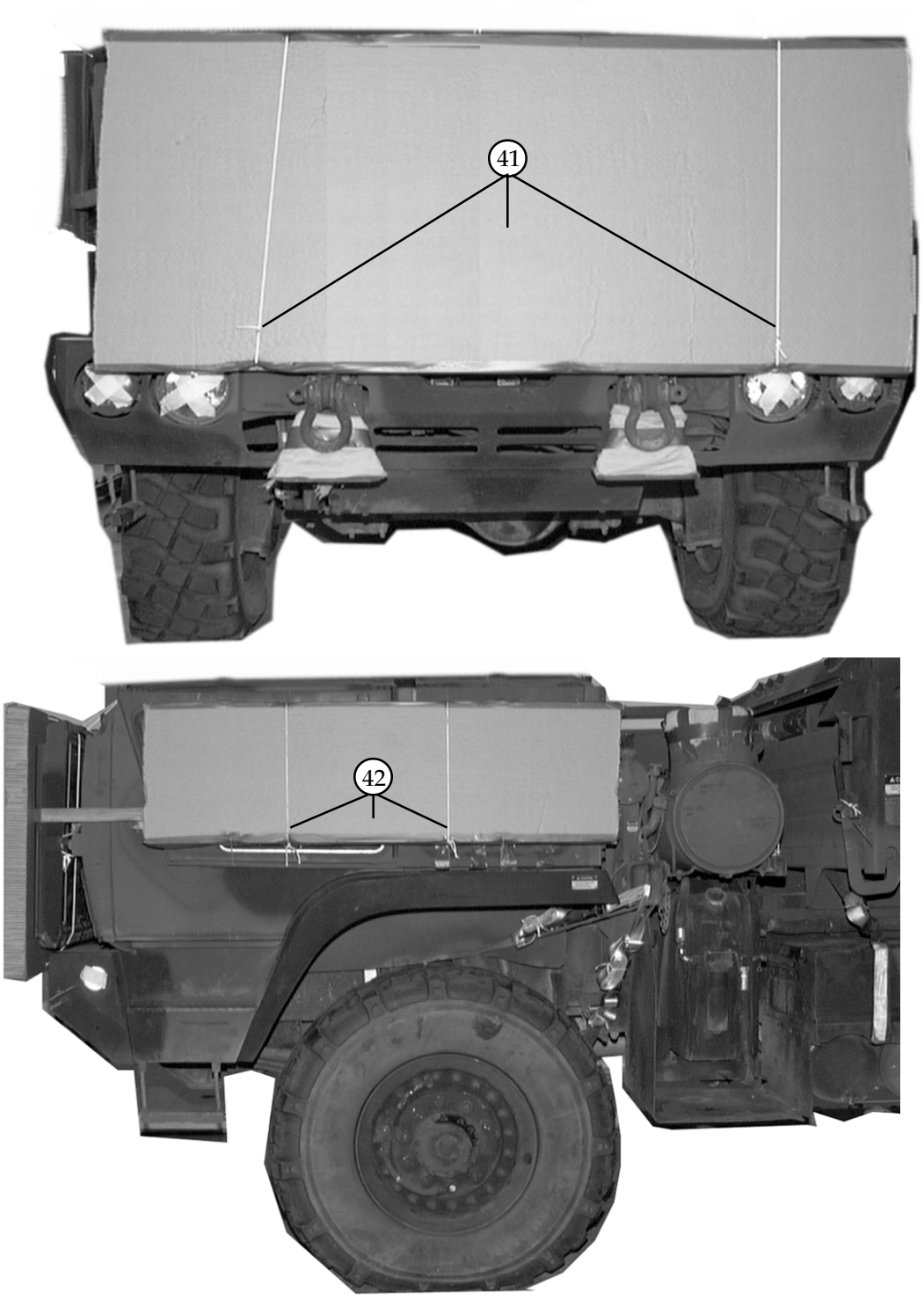


(38) Retract the spare tire carrier and secure with 1/2-inch tubular nylon webbing.

(39) Tape the chains and pins in place on the spare tire carrier.

(40) Secure the tool kit access panel with a length of type III nylon cord (if not secured).

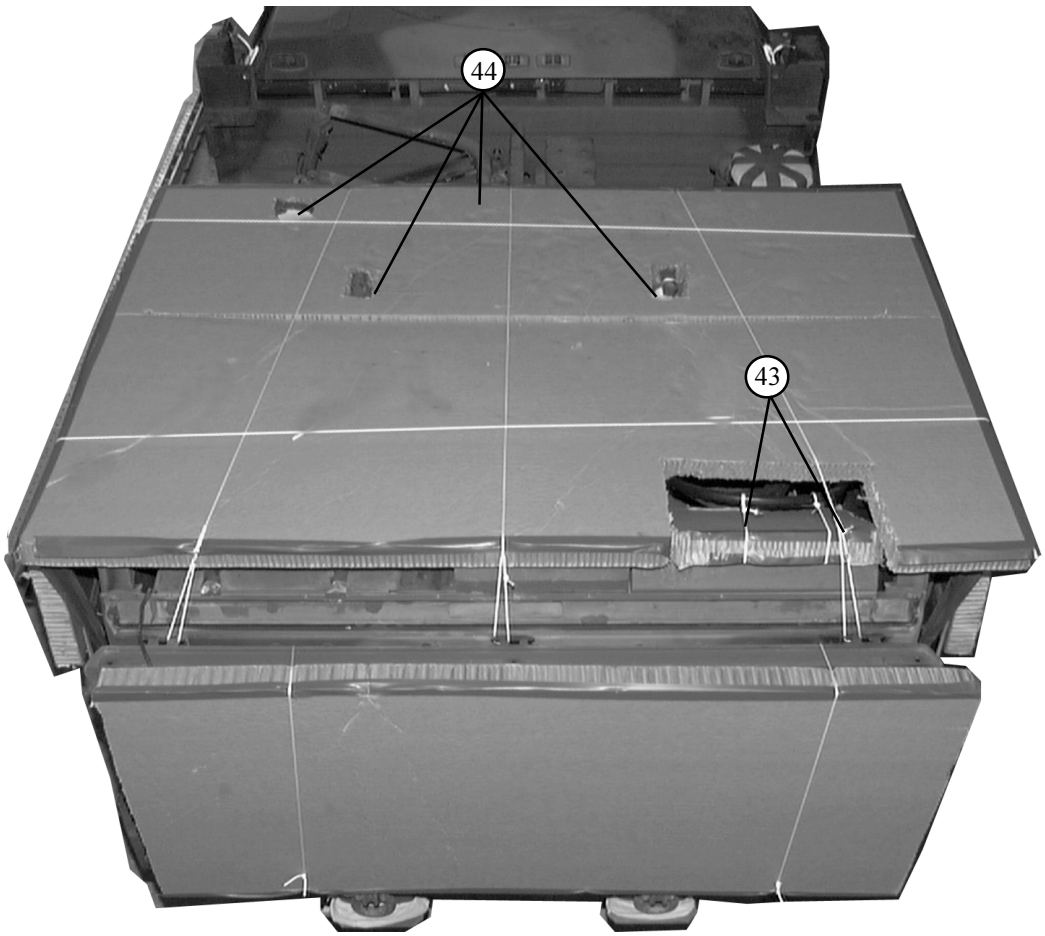
Figure 4-12. Truck prepared (Continued)



(41) Place a 36- by 80-inch piece of honeycomb on the windshield. Secure it with two lengths of type III nylon cord.

(42) Place one 18- by 60-inch piece of honeycomb on the left side window and one piece on the right side window. Secure each with two lengths of type III nylon cord.

Figure 4-12. Truck prepared (Continued)

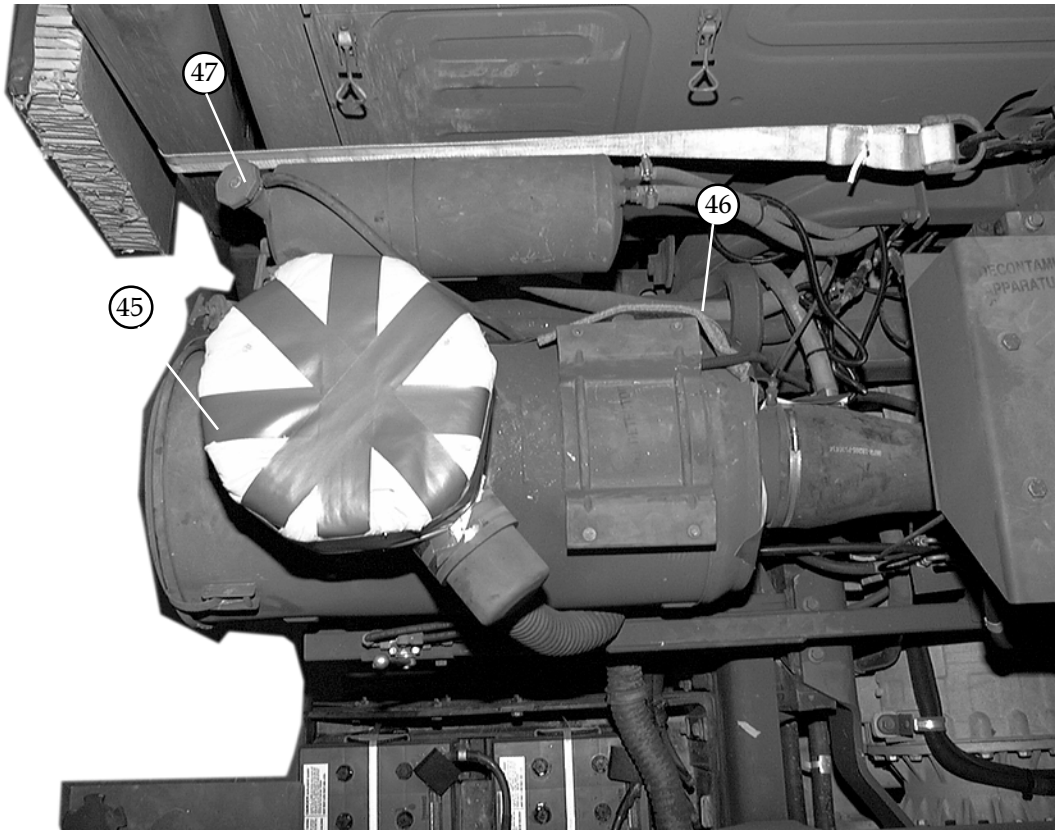


(43) Place a 36- by 96-inch piece of honeycomb over the driver's compartment. Cut out a section for the steering wheel 21- by 12-inches deep and place it over the instrument panel in the cab. Tape all edges with cloth-backed tape.

(44) Place a 28- by 96-inch piece of honeycomb with cutouts for the davit holders behind the 36- by 96-inch piece of honeycomb. Tape all edges with cloth-backed tape. Secure all pieces with type III nylon cord.

Figure 4-12. Truck prepared (Continued)

Note: Hoses that will interfere with the attachment of the suspension slings should be tied back.

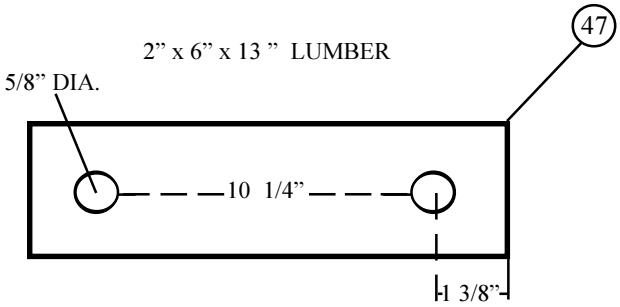


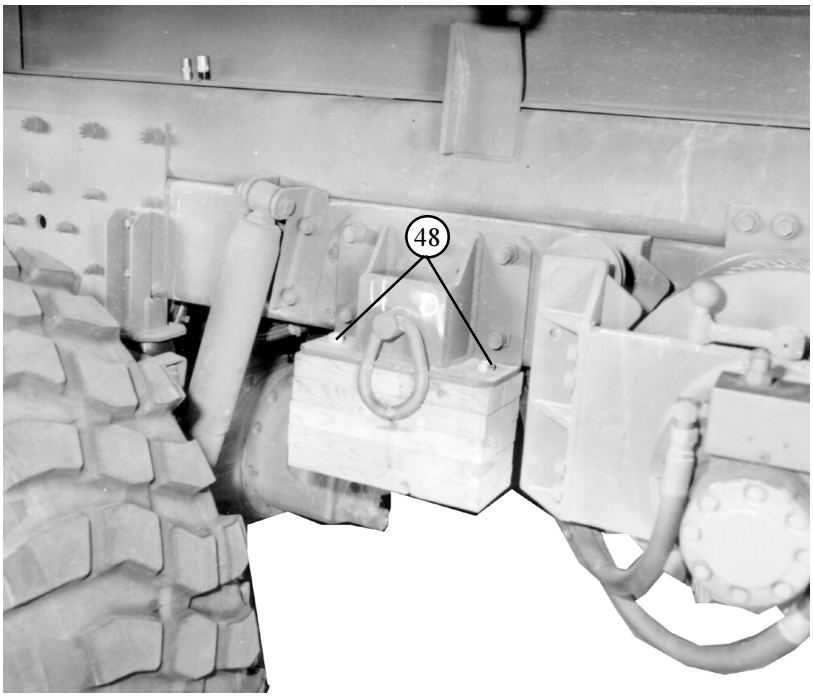
(45) Wrap the air intake fitting with cellulose wadding and secure with cloth-backed tape. Secure the end hose out of the way with type III nylon cord.

(46) Pad the lower air intake fitting with felt and secure with cloth-backed tape.

(47) Ensure the radiator pressure cap is secure.

Figure 4-12. Truck prepared (Continued)

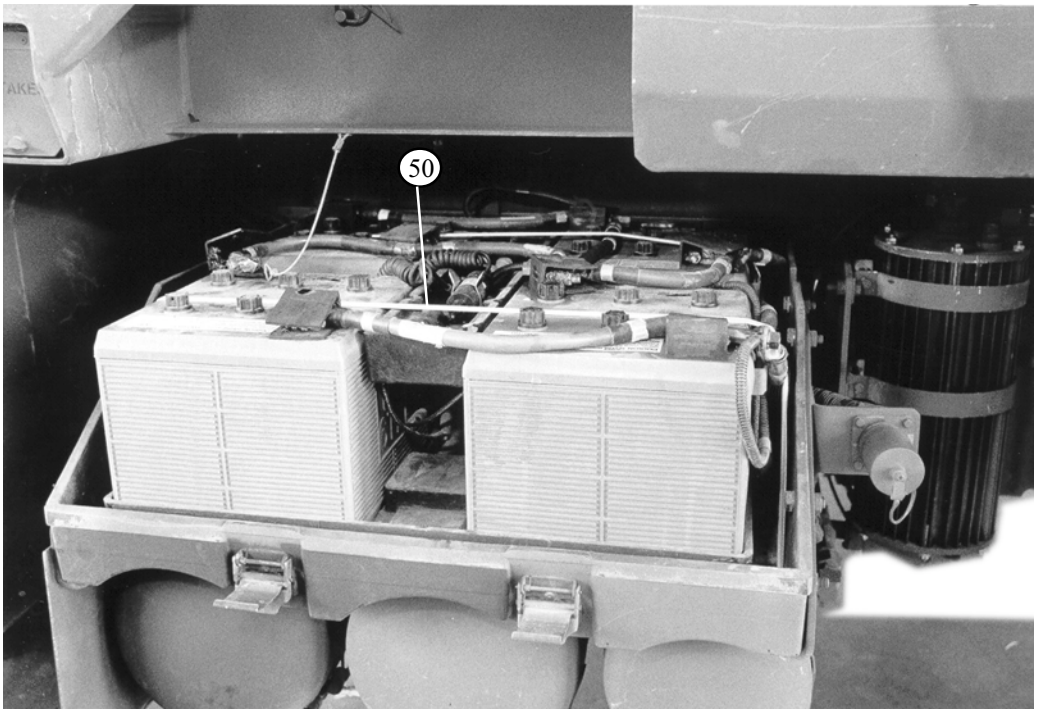


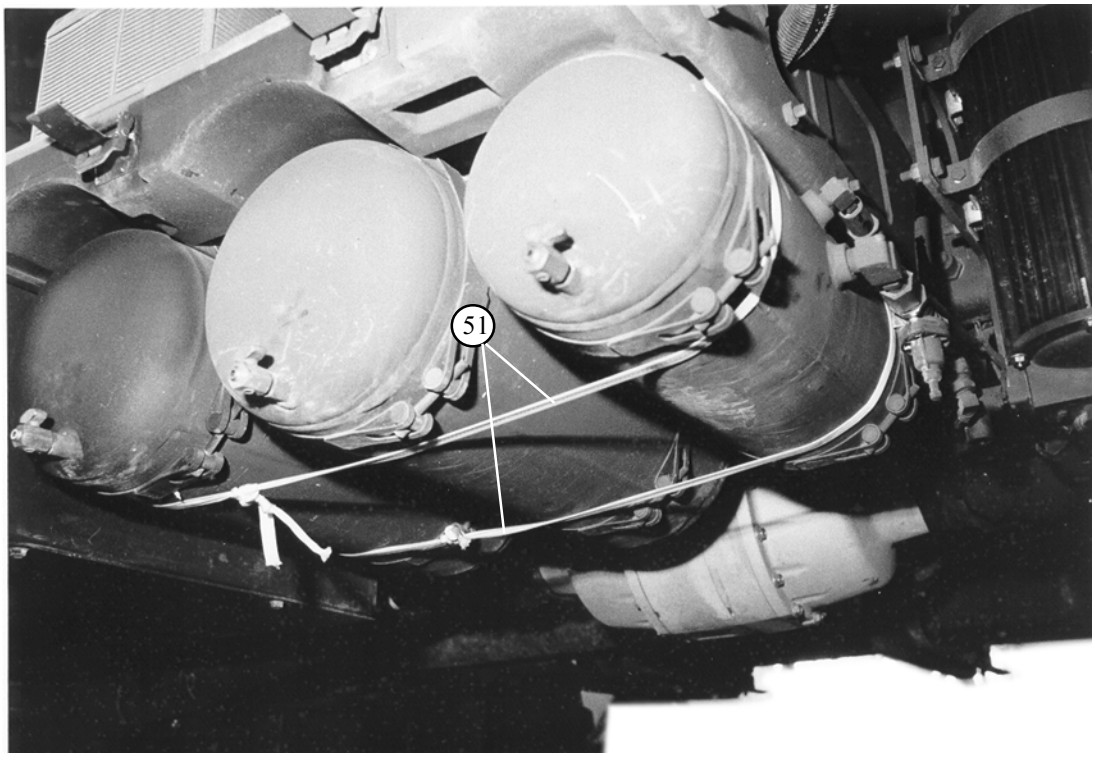


(47) Cut ten 2- by 6- by 13-inch pieces of lumber. Drill two 5/8-inch diameter holes 1 3/8-inches from the edge, with a 10 1/4-inch center to center hole measurement in each piece of lumber.

(48) Bolt five 2- by 6- by 13-inch pieces of lumber to the left and right side frame pads using two 1/2- by 10-inch bolts on each side.

Figure 4-12. Truck prepared (Continued)

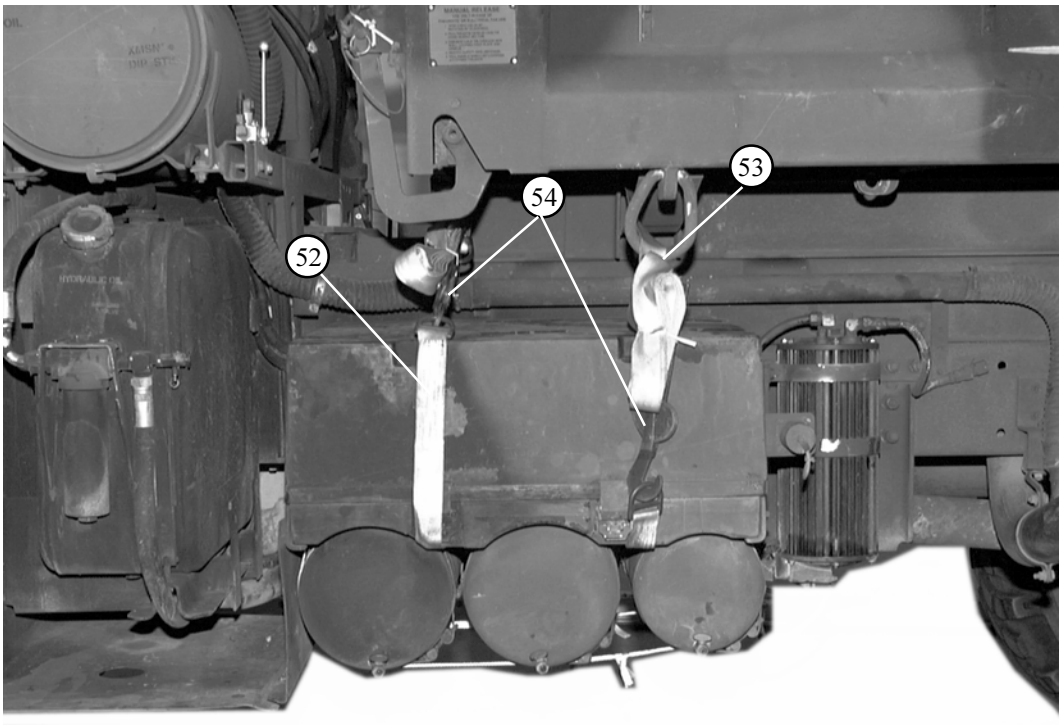


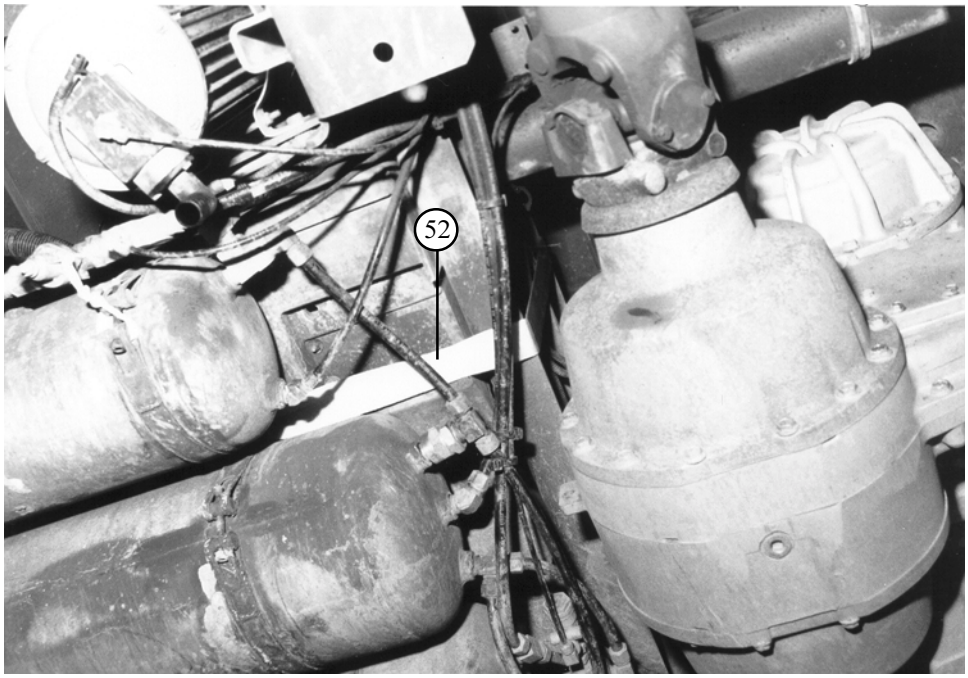


(50) Remove the battery box cover and secure the batteries in place with two lengths of 1/2-inch tubular nylon webbing.

(51) Run the nylon webbing over the batteries down through the battery box and under the air tanks.

Figure 4-12. Truck prepared (Continued)





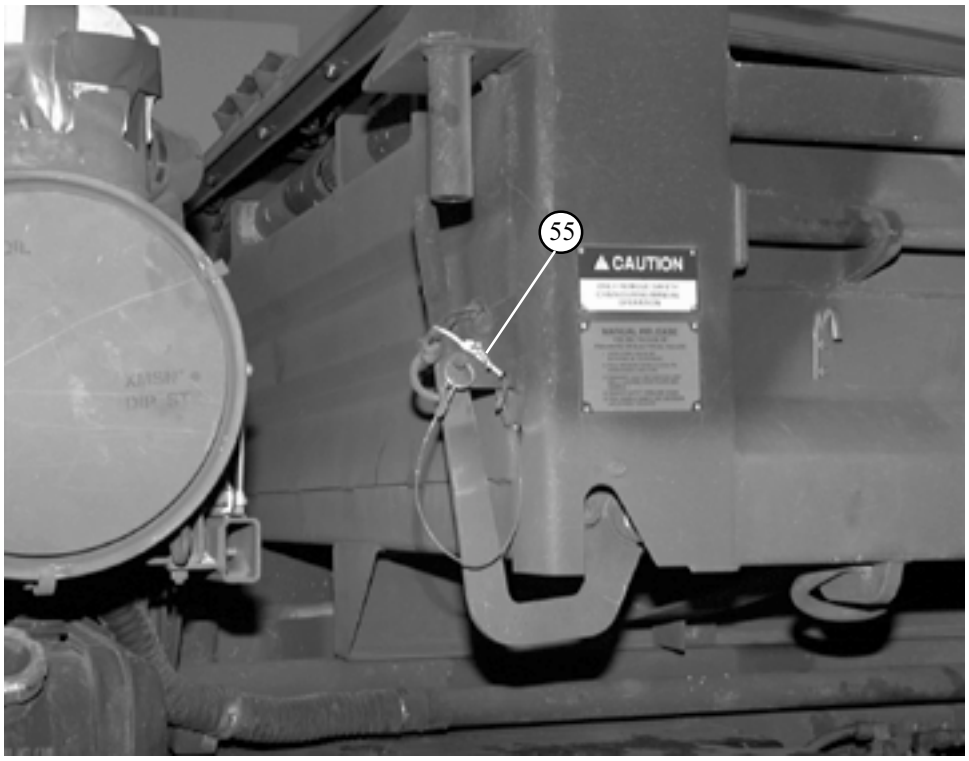
(52) Replace the cover. Route a 15-foot lashing around the main frame, under the battery box, between the air tanks.

(53) Route a 15-foot lashing through tiedown point #1 and around the main frame, under the battery box, between the air tanks.

(54) Secure with D-ring and loadbinder on the front of battery box cover. Pad with felt or cellulose wadding.

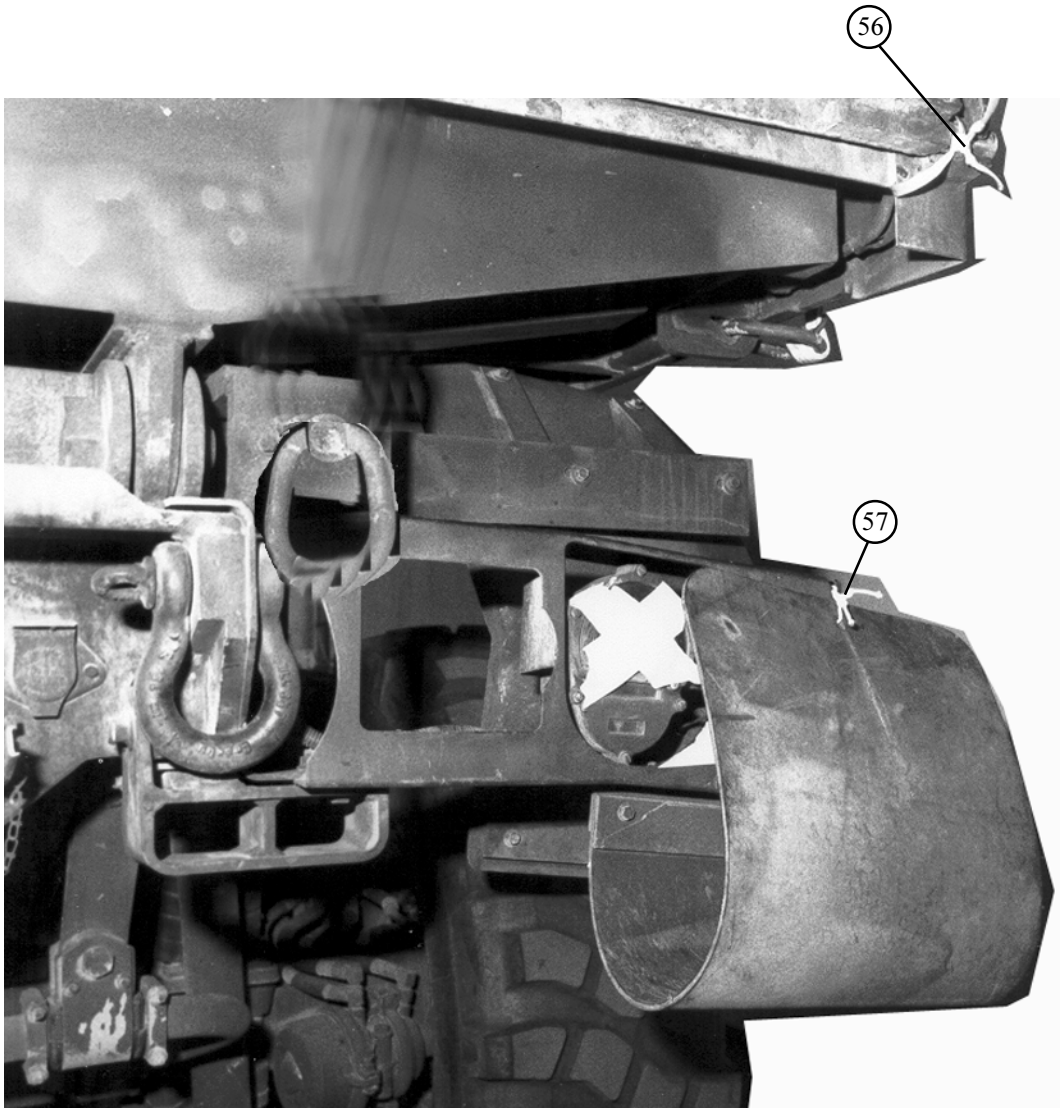
Note: Ensure the lashings are underneath all hoses and not crimped.

Figure 4-12. Truck prepared (Continued)



(55) Safety tie the dump manual release lever with type III nylon cord.

Figure 4-12. Truck prepared (Continued)



(56) Using 1/2-inch tubular nylon webbing, tie the corners of the rear side panels and tailgate together. Tie the front of the forward side to convenient locations on the truck.

(57) Tie the mud flaps up with type III nylon cord.

Figure 4-12. Truck prepared (Continued)

4-6. Stowing Accompanying Load

Stow the vehicle's roof, spare tire, and dump body cab protector (overhead protector) in the truck bed as shown in *Figure 4-13.* The accompanying load may consist of ammunition boxes or ballast boxes as shown in *Figure 4-14 or Figure 4-15.* Ballast materials must be packaged to prevent spillage or leakage during use. Position and lash the accompanying load in one of the following configurations.

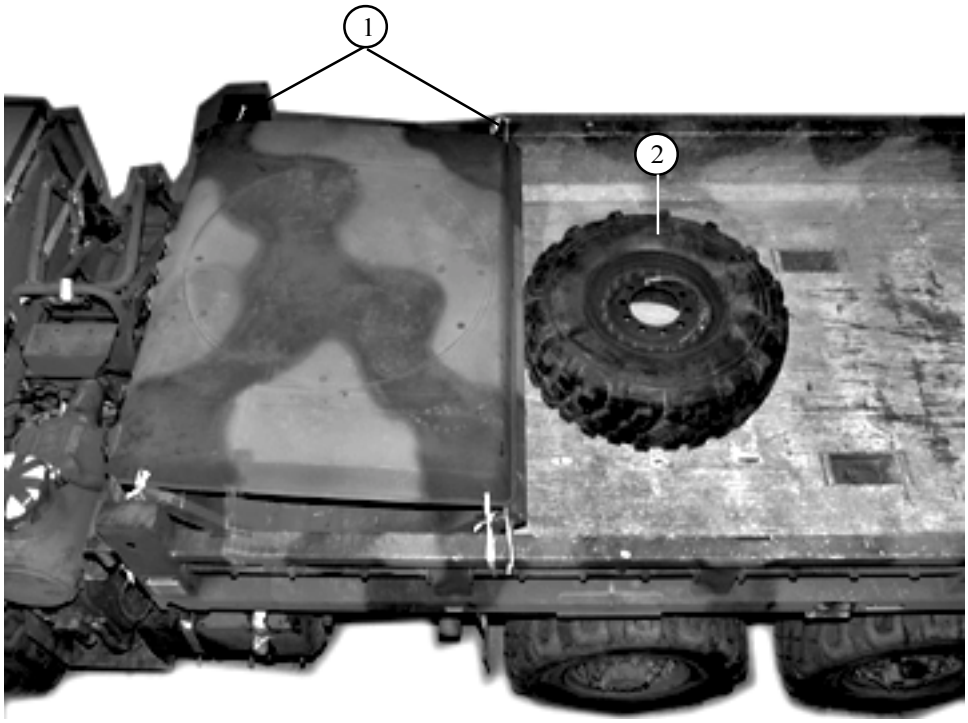
a. Configuration 1 consists of 16 ammunition boxes that weigh a minimum of 2,000 pounds and a maximum of 2,200 pounds for ballast as shown in *Figure 4-14.*

b. Configuration 2 consists of a box constructed to contain a minimum of 2,000 pounds and a maximum of 2,200 pounds for ballast as shown in *Figure 4-15.*

CAUTION
Only ammounition authorized by FM 10-500-53/TO 13C7-1841 may be airdropped.

Note: If configuration 1 is not used, then configuration 2 must be used to insure proper extraction and suspension during airdrop.

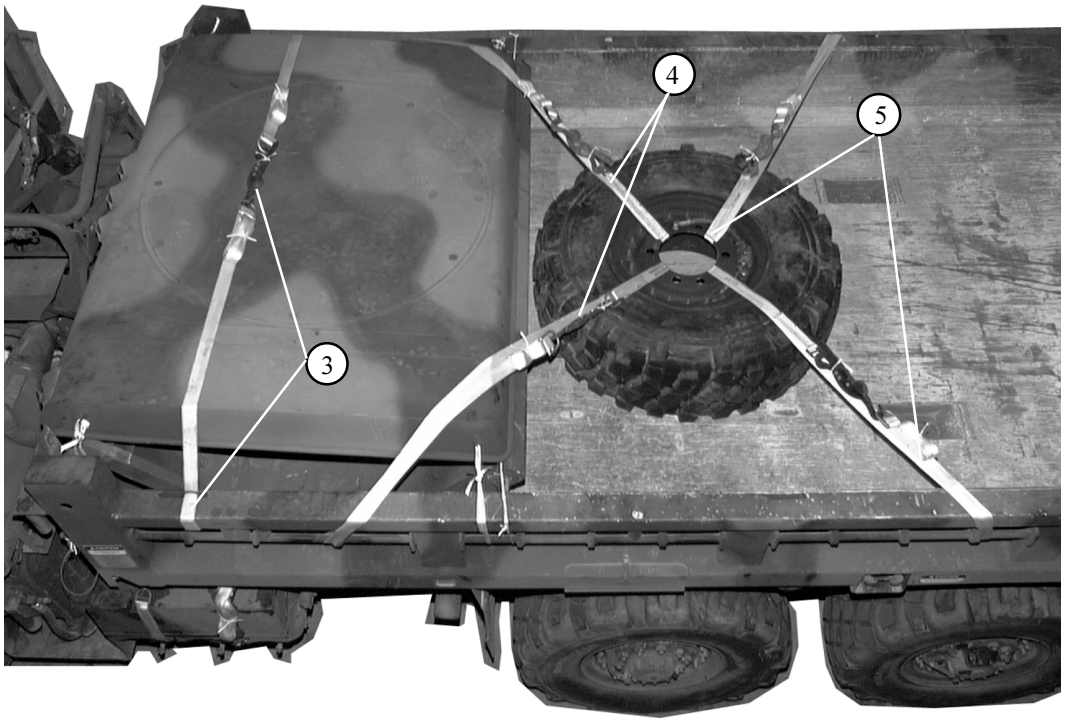
CAUTION
This load requires an accompanying load of 2,000 pounds to attain the required Center of Balance (CB).



(1) Secure the corners of the roof and cab protector with 1/2-inch tubular nylon webbing.

(2) Place the spare tire in the center of the dump truck bed behind the roof and cab protector.

Figure 4-13. Accompanying load stowed

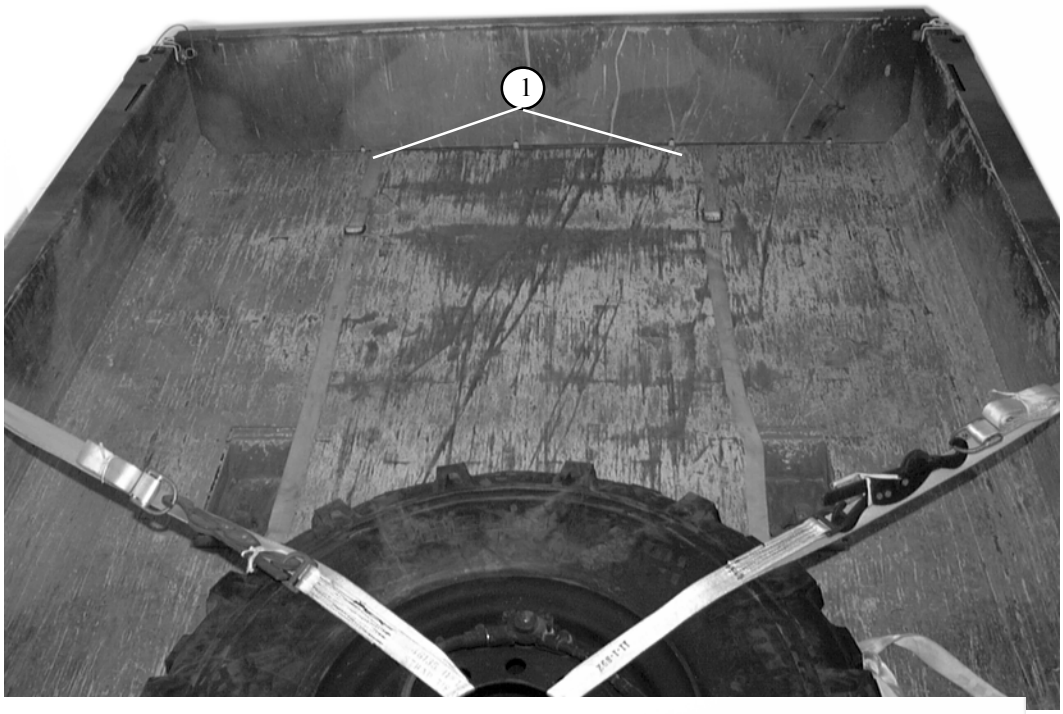


(3) Route a 15-foot lashing through the front hole on the left side of the dump truck bed and back through it's own D-ring. Repeat for the right side. Secure with D-rings and a loadbinder on top of the roof.

(4) Route a 15-foot lashing around the fourth set of tie bars from the rear on the left side of the dump bed and over the roof and through the spare tire lug-nut hole. Secure with a D-ring and loadbinder. Repeat for the right side.

(5) Route a 15-foot lashing around the second set of tie bars from the rear on the left side of the the dump bed. Repeat for the right side. Route each lashing through the lug-nut holes on the spare tire. Secure with D-rings and loadbinder.

Figure 4-13. Accompanying load stowed (Continued)

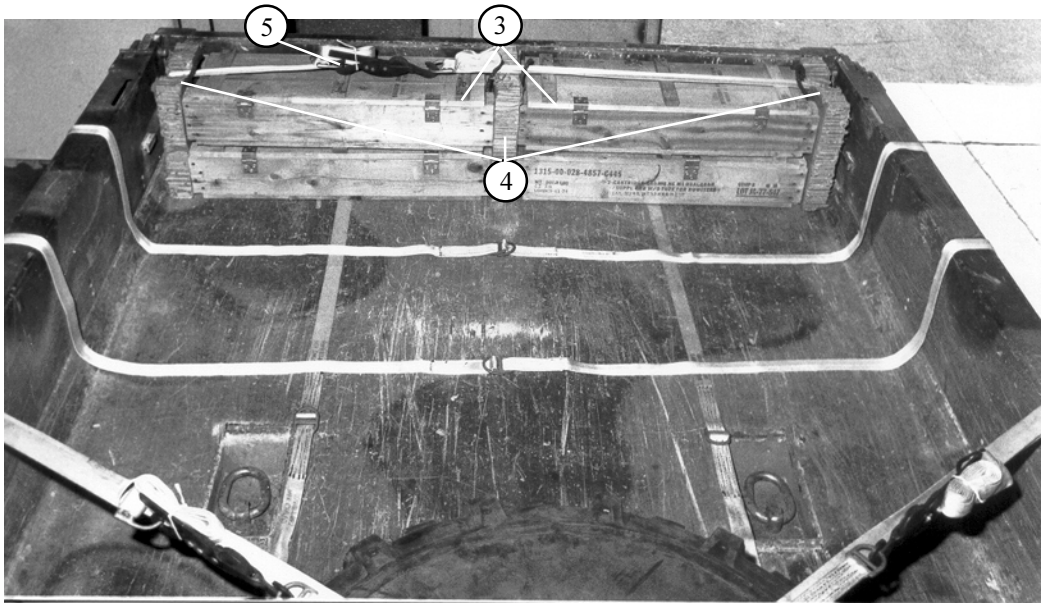


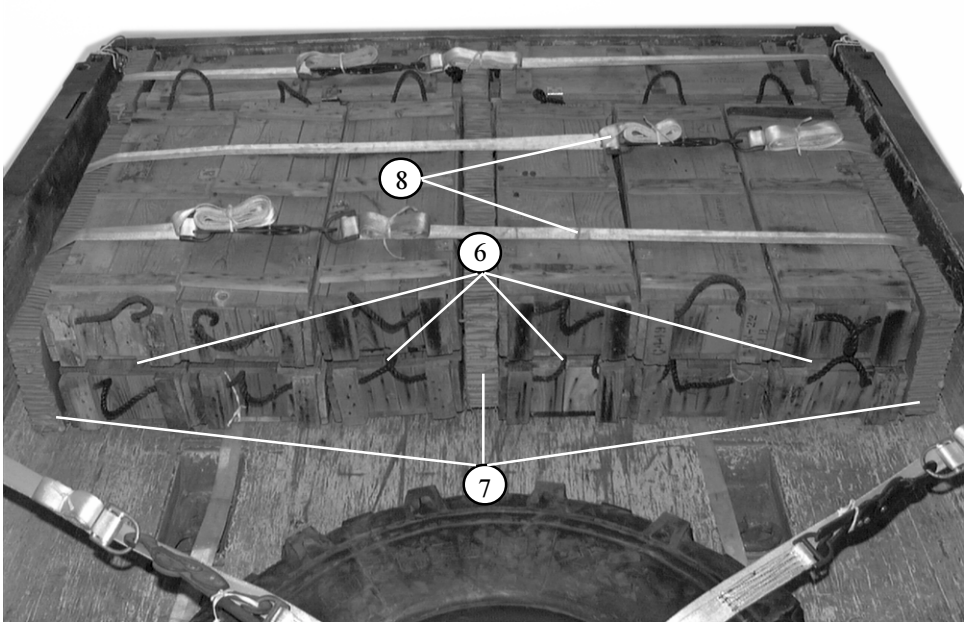
Configuration 1

(1) Form two 30-foot lashings and place them lengthwise in the dump bed. Route one running end of each lashing underneath the tailgate and through the truck rear tiedowns.

(2) Form three 30-foot lashings. Place them across the dump bed starting from the tailgate at 6 inches, 12 inches and 14 inches.

Figure 4-14. Configuration 1 stowed





Configuration 1 (Continued)

(3) Stack two sets of two ammunition boxes each across the dump bed against the tailgate centering the rear lashing .

(4) Cut to fit three pieces of honeycomb placing them on each side and between the two stacks.

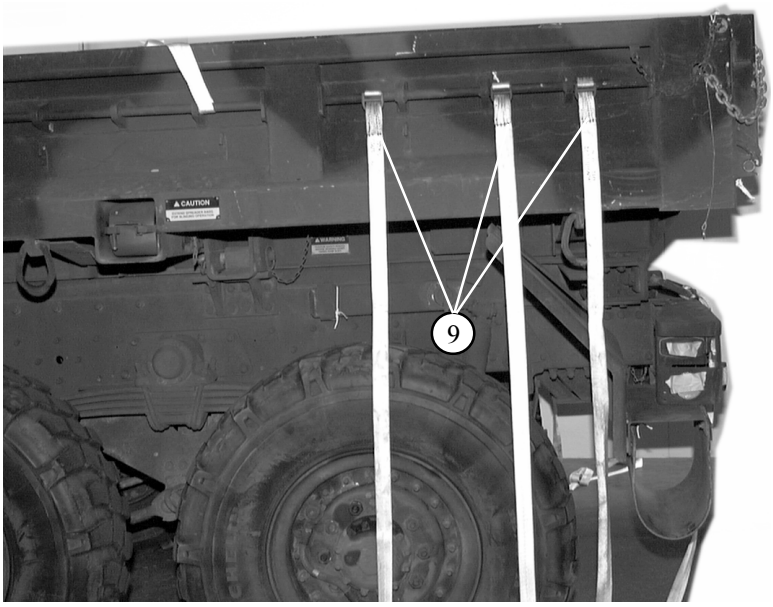
(5) Secure the first lashing on top of the ammunition boxes with a D-ring and loadbinder.

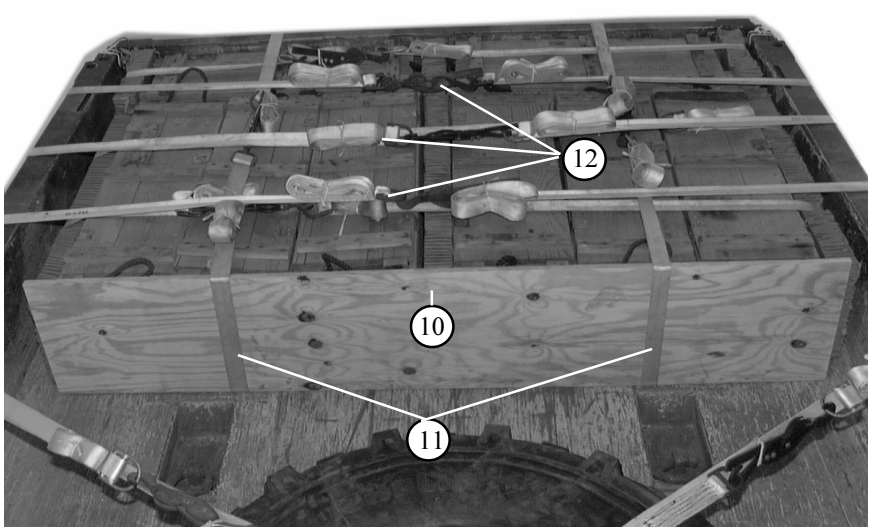
(6) Stack two sets of six ammunition boxes each lengthwise in the dump bed against the first two stacks.

(7) Cut to fit three pieces of honeycomb placing one on each side and one between the two stacks.

(8) Secure the second and third lashings on top of the ammunition boxes with D-rings and loadbinders.

Figure 4-14. Configuration 1 stowed (Continued)





Configuration 1 (Continued)

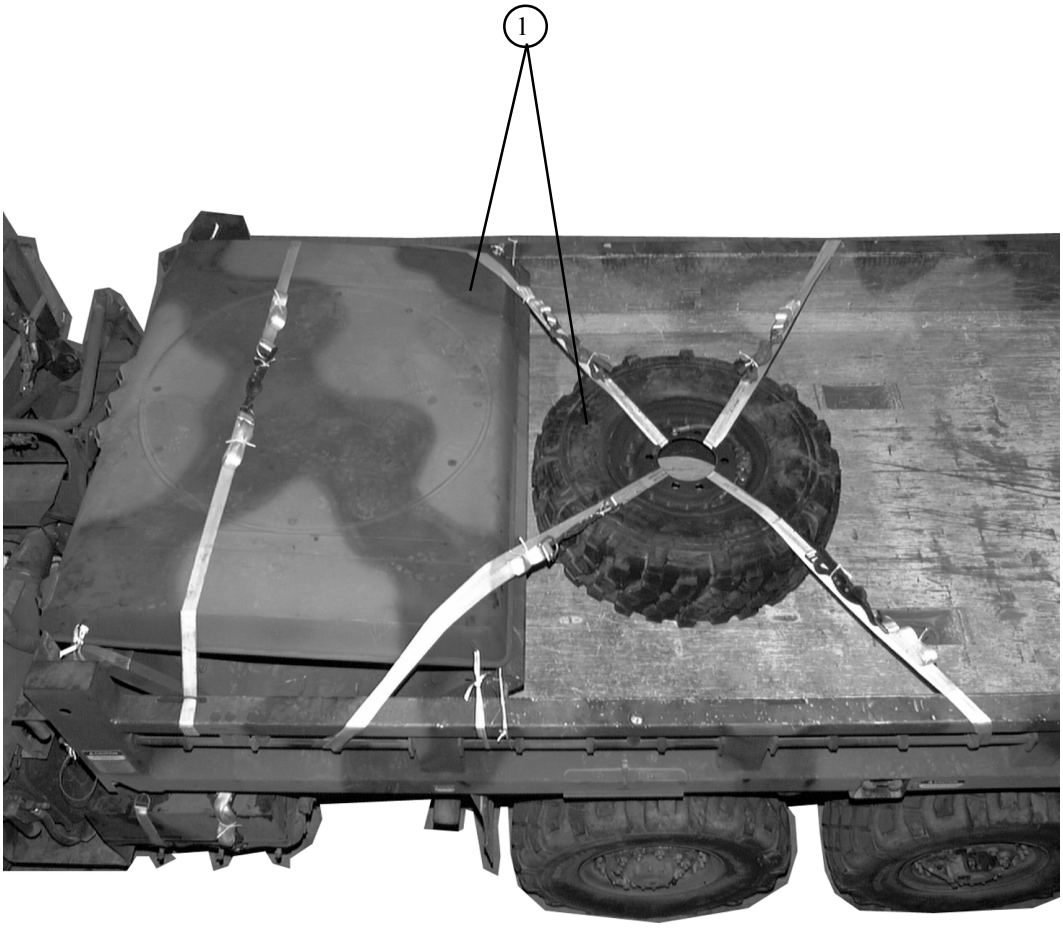
(9) Route three 15-foot lashings around the rear set of tie bars on each side of the dump truck bed.

(10) Cut a 3/4- by 82- by 15-inch piece of plywood and place against the front of the ammunition boxes, centered side to side.

(11) Secure the two 30-foot lashings on the top of the ammunition boxes with D-rings and loadbinders.

(12) Secure the 15-foot lashings from the rear set of tie bars on the top of the ammunition boxes with D-rings and loadbinders.

Figure 4-14. Configuration 1 stowed (Continued)



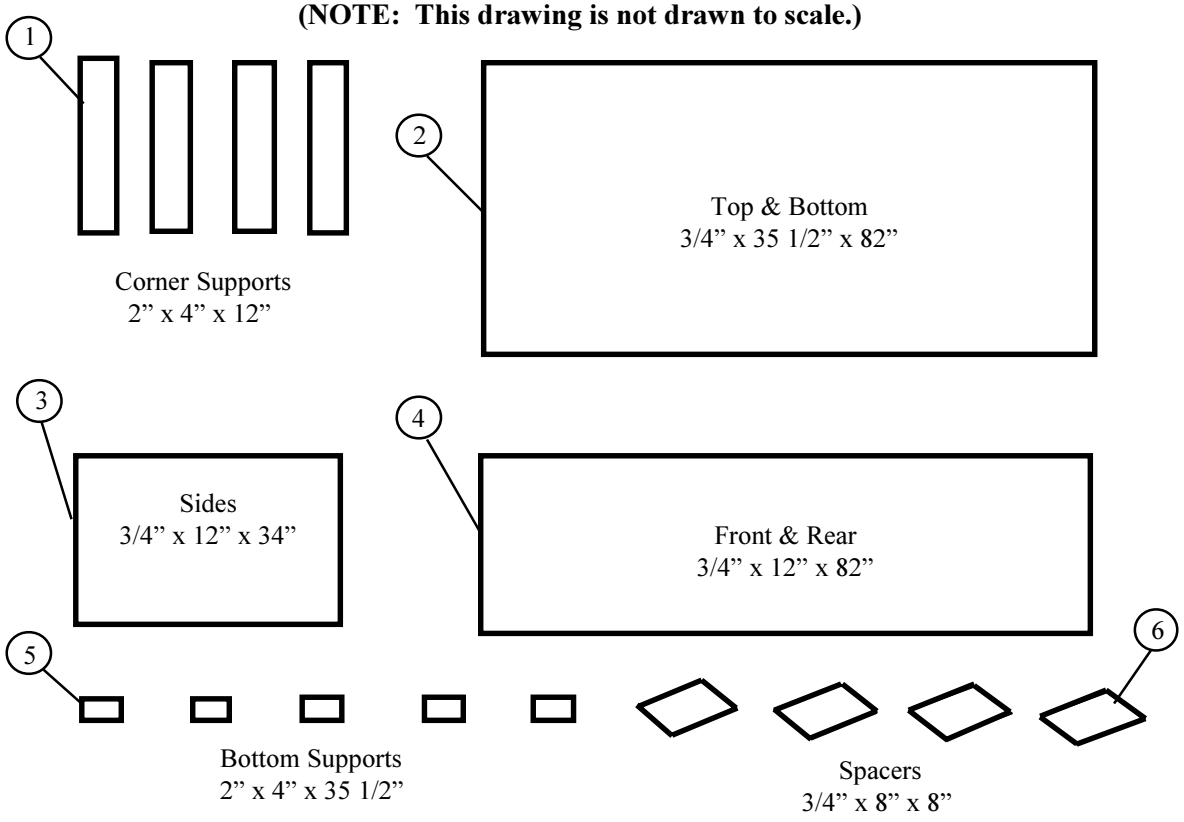
Configuration 2

(1) Using steps 1 through 5 in *Figure 4-13*, position and secure the roof, cab protector and spare tire in the dump truck bed.

(2) Construct a ballast box using nails as shown in diagram on the next page.

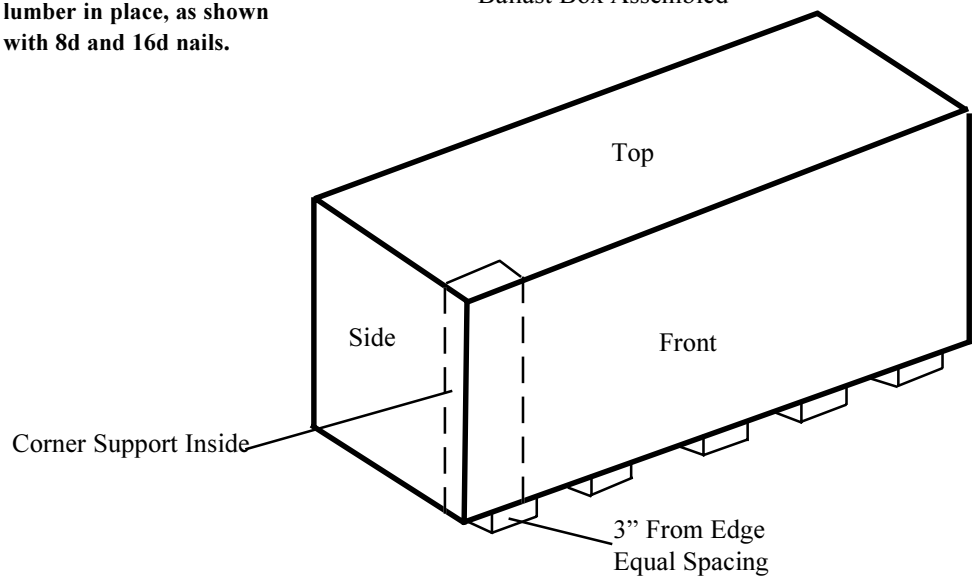
Figure 4-15. Configuration 2 stowed

BALLAST BOX DIAGRAM
(NOTE: This drawing is not drawn to scale.)



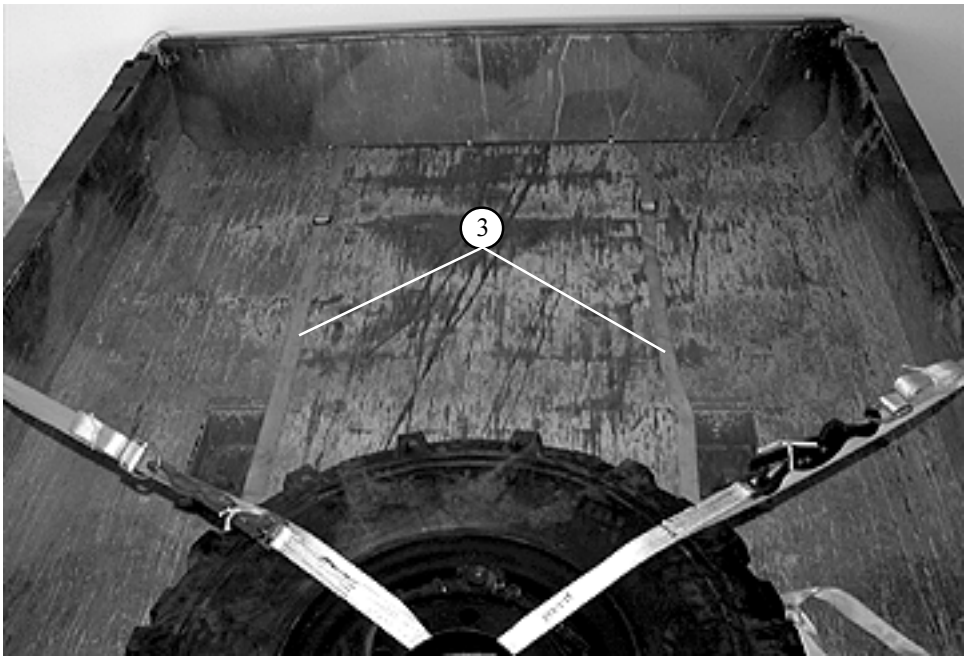
Secure the plywood and lumber in place, as shown with 8d and 16d nails.

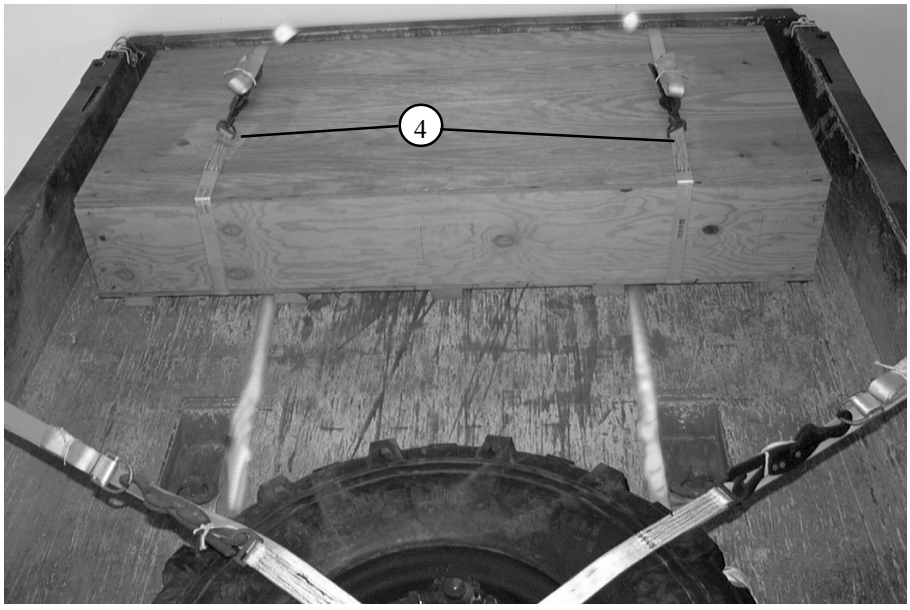
Ballast Box Assembled



Item Number	Pieces	Width (Inches)	Length (Inches)	Material	Instructions
1	4	4	12	2- by 4-inch lumber	Place to the inside of back, front, and both sides.
2	2	35 1/2	82	3/4-inch plywood	Nail to top and bottom of the corner supports, the sides, the front and rear.
3	2	12	12	3/4-inch plywood	Nail to 2-inch side of corner supports.
4	2	12	12	3/4-inch plywood	Nail to 4-inch side of corner supports.
5	5	4	35 1/2	2- by 4-inch lumber	Nail to box bottom, 3-inches from edges and 14-inches equally spaced.
6	4	8	8	3/4-inch plywood	

Figure 4-15. Configuration 2 stowed (Continued)



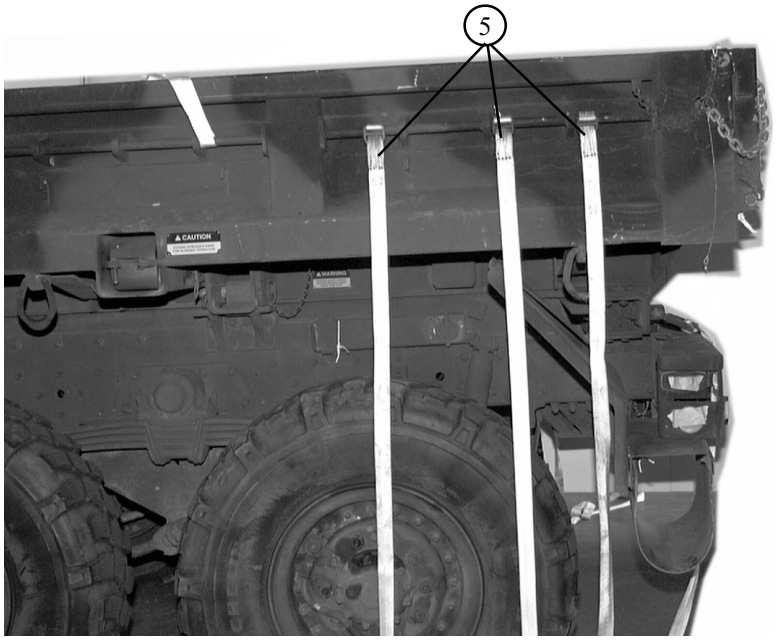


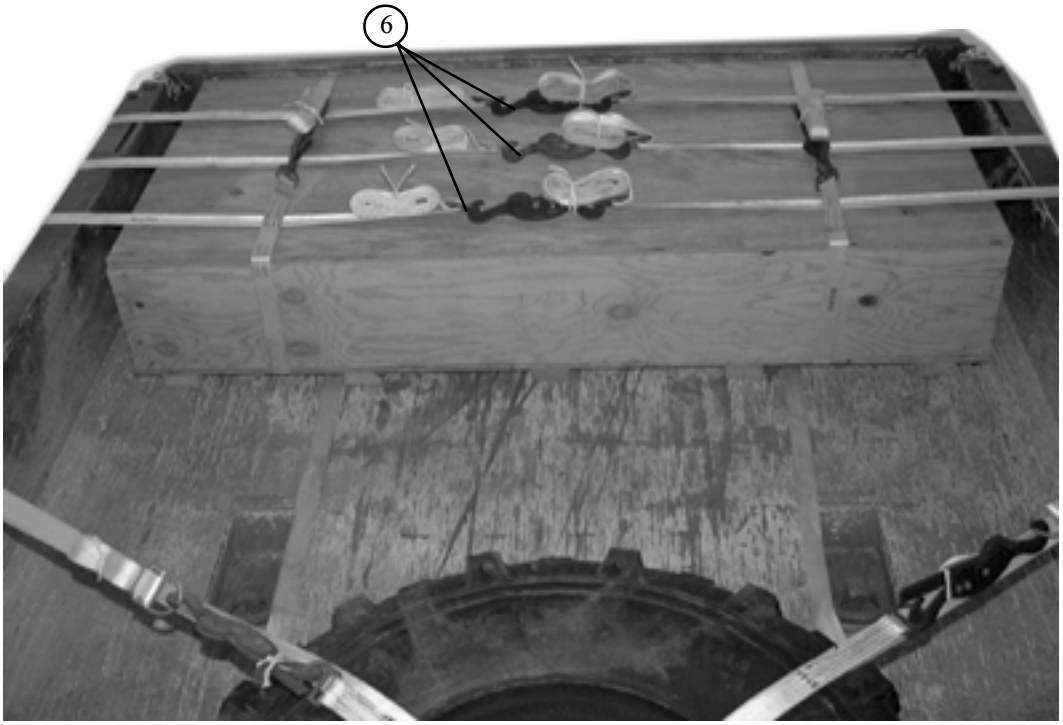
Configuration 2 (Continued)

(3) Form two 30-foot lashings and place them lengthwise in the dump truck bed. Route one running end of each lashing underneath the tailgate and through rear tiedown points.

(4) Route two 15-foot lashings around the ballast box. Secure with D-rings and loadbinders. Position the ballast box against the tailgate and on top of 30-foot lashings.

Figure 4-15. Configuration 2 stowed (Continued)

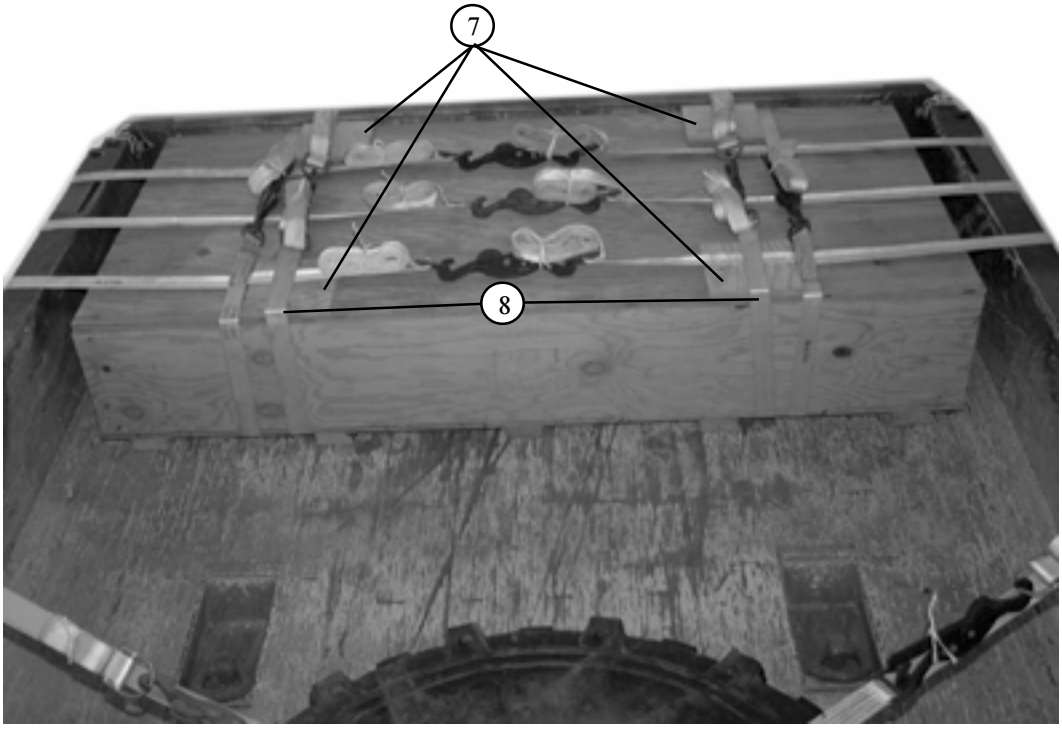


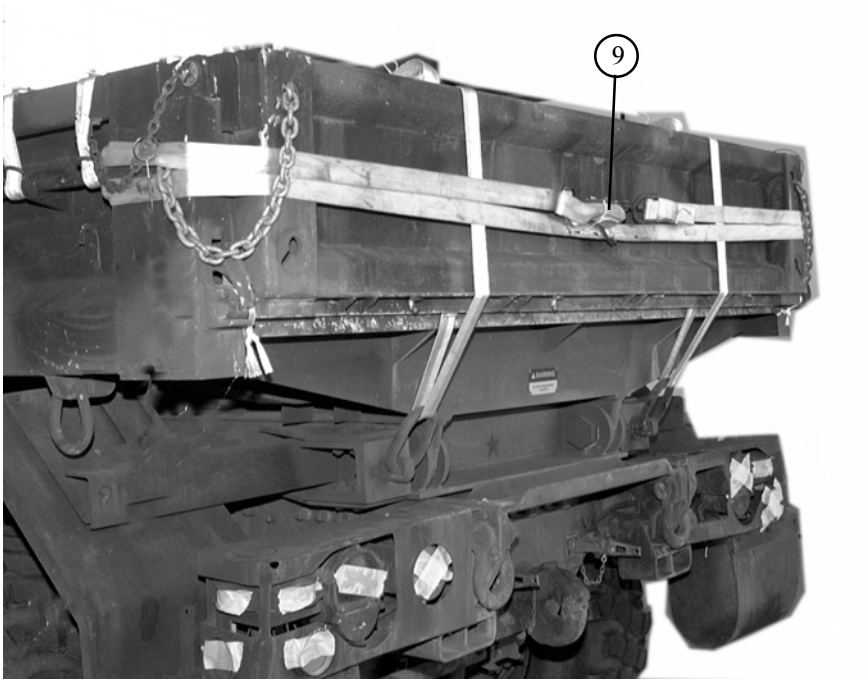


(5) Route three 15-foot lashings around the rear set of tie bars on each side of the dump truck.

(6) Route the lashings on top of the ballast box, underneath the two 30-foot lashings on the box. Secure with D-rings and loadbinders.

Figure 4-15. Configuration 2 stowed (Continued)





(7) Position the four ballast box spacers to the front and rear edges of the ballast box , under the 30-foot lashings of the ballast box.

(8) Secure the two 30-foot lashings on top of the ballast box spacers with D-rings and loadbinders.

(9) Form a 30-foot lashing and route it through the rear right tie bar around the tailgate through the left tie bar and secure in the rear of the tailgate with a D-ring and loadbinder.

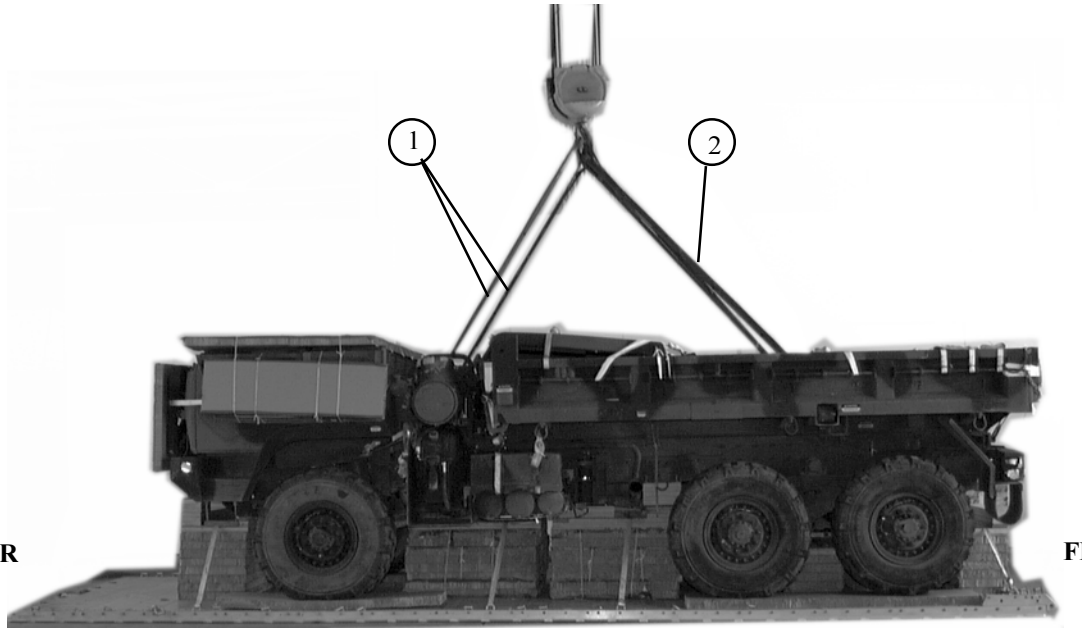
Figure 4-15. Configuration 2 stowed (Continued)

4-7. Lifting and Positioning Truck

Install lifting slings on the M1094 dump truck and position the truck as shown in *Figure 4-16* and as described below.

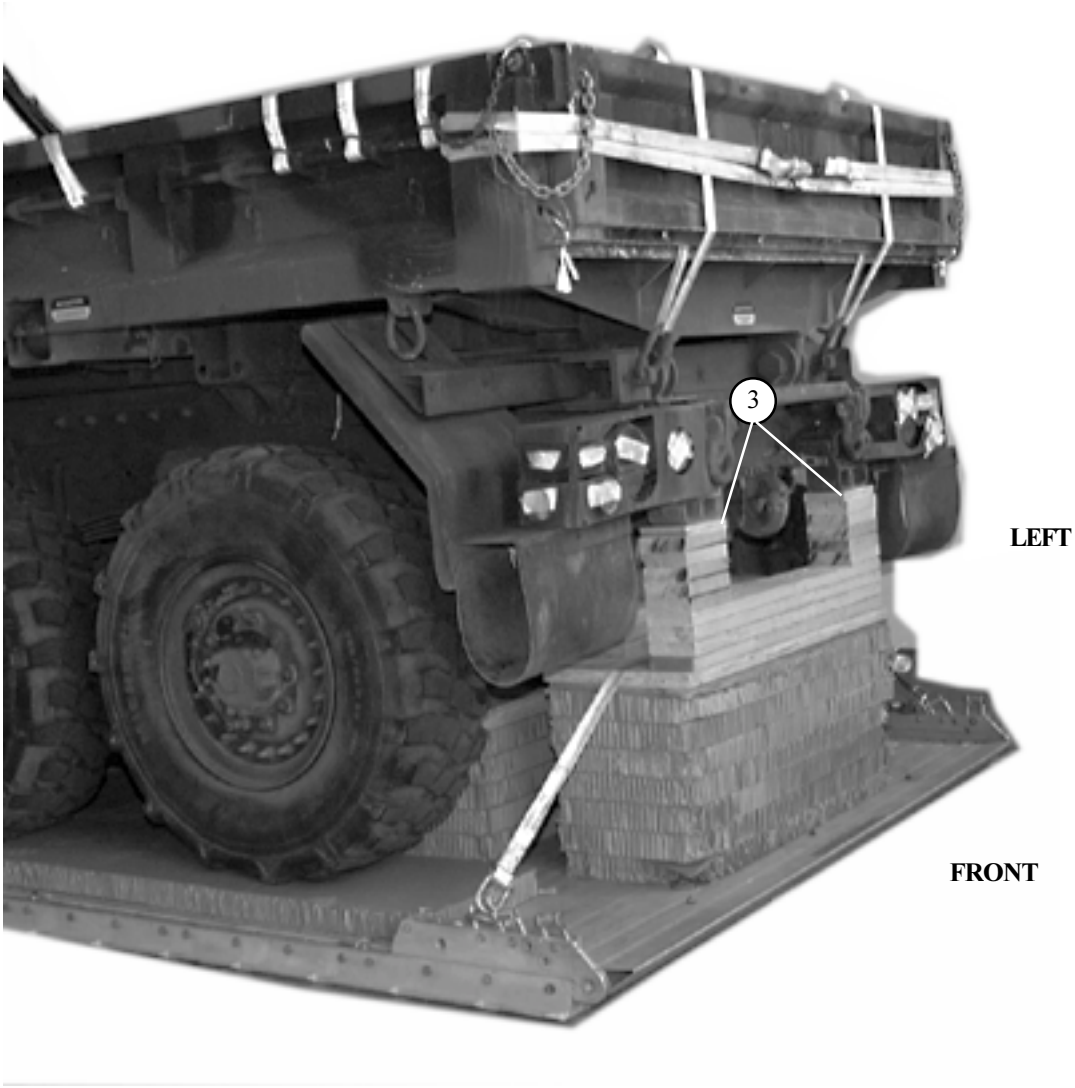
a. Construct a lifting kit using a large clevis and two doubled 20-foot (4-loop), type XXVI sling (10-foot sling) attached to each rear lifting point. Attach a 9-foot (4-loop), type XXVI sling to each front lifting point with a 9 1/2 ton screw pin clevis.

b. Position the 5-ton dump truck so that the rear bumper pads are flush with the front honeycomb stack 1.



1. Attach a 9-foot (4-loop), type XXVI sling to each front lifting point with a screw pin clevis.
2. Attach a doubled 20-foot (4-loop), type XXVI sling to each rear lifting point with a large clevis.

Figure 4-16. Truck positioned on the platform

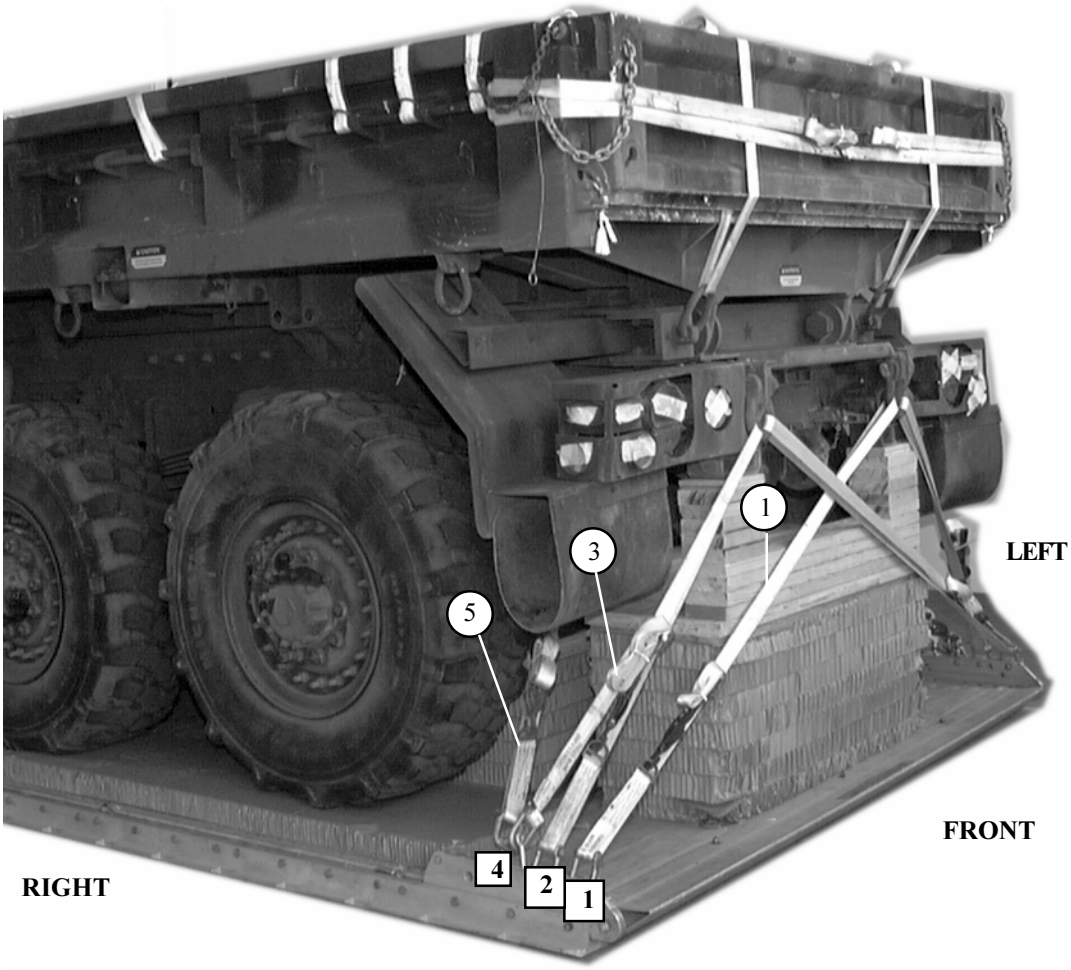


3 Position the FMTV 5-ton dump truck so that the rear bumper pads are flush with the front edge of stack 1.

Figure 4-16. Truck positioned on the platform (Continued)

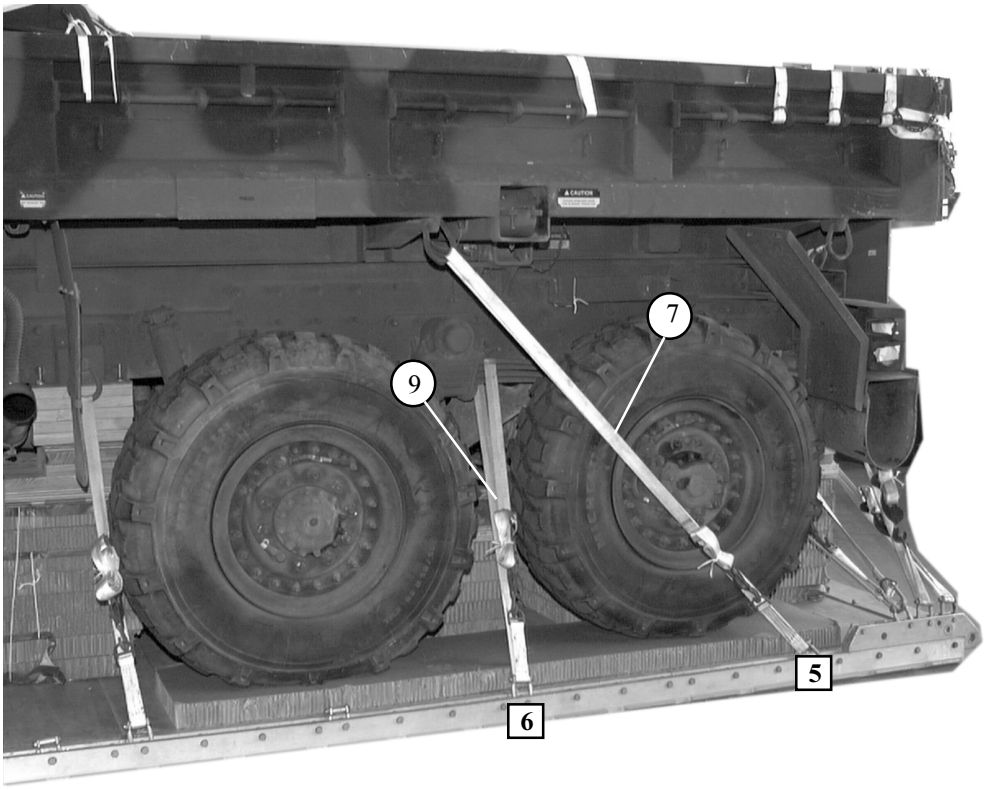
4-8. Installing Lashings

Install lashings according to FM 10-500-2/TO 13C7-1-5 and as shown in *Figure 4-17.*



Lashing Number	Tiedown Clevis Number	Instructions
		Pass lashing:
1	**1**	**Through vehicle right rear tiedown shackle.**
2	**1A**	**Through vehicle left rear tiedown shackle.**
3	**2**	**Through vehicle left rear tiedown shackle.**
4	**2A**	**Through vehicle right rear tiedown shackle.**
5	**4**	**Around the vehicle stabilizer left rear side.**
6	**4A**	**Around the vehicle stabilizer right rear side.**

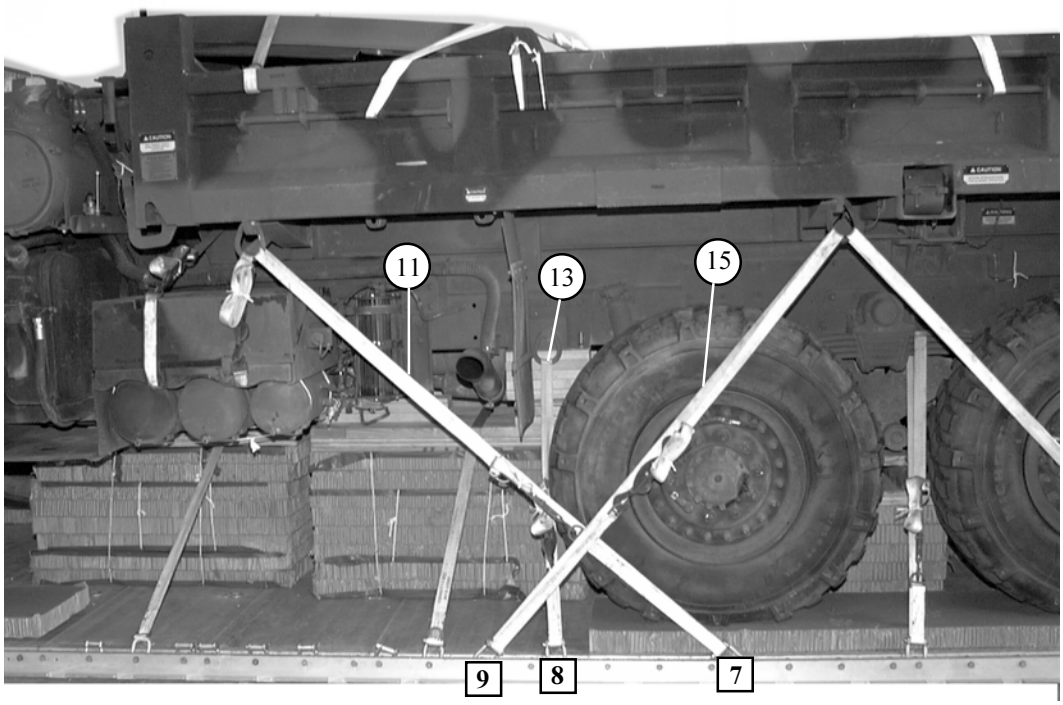
Figure 4-17. Truck positioned and lashed to the platform



RIGHT

Lashing Number	Tiedown Clevis Number	Instructions
		Pass lashing:
7	**5**	**Through tiedown point #3 on the vehicle left side.**
8	**5A**	**Through tiedown point #3 on the vehicle right side.**
9	**6**	**Around the rear portion of the vehicle left leaf spring.**
10	**6A**	**Around the rear portion of the vehicle right leaf spring.**

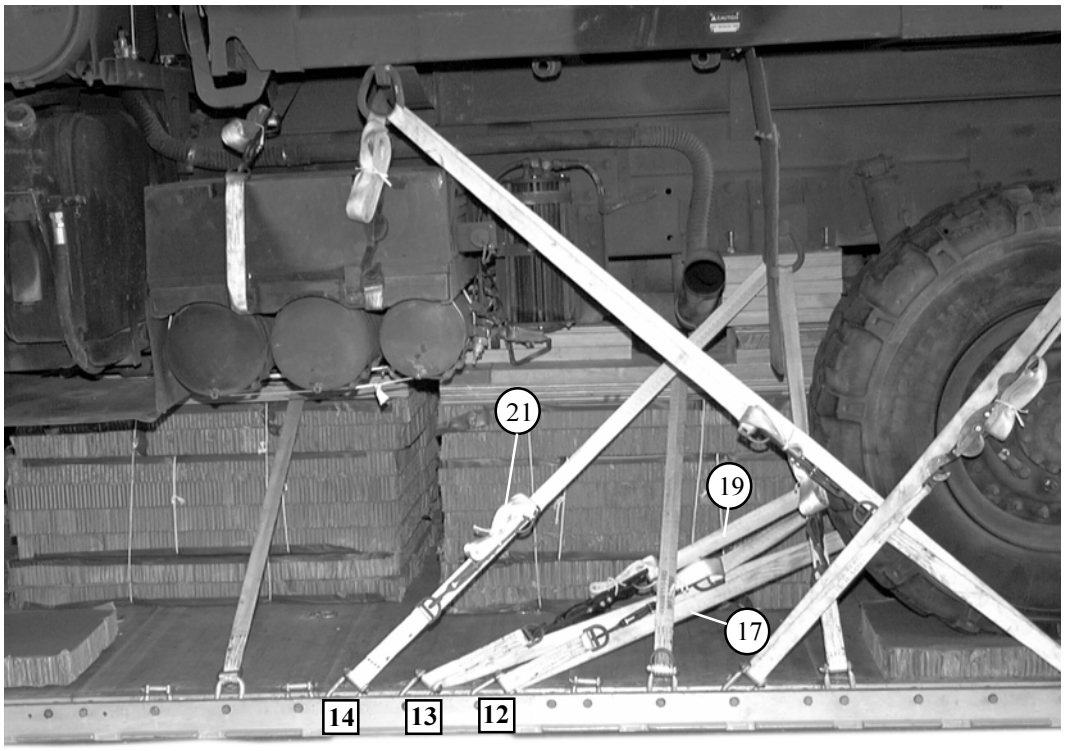
Figure 4-17. Truck positioned and lashed to the platform (Continued)



RIGHT

Lashing Number	Tiedown Clevis Number	Instructions
		Pass lashing:
11	**7**	**Through the vehicle left tiedown point #1.**
12	**7A**	**Through the vehicle right tiedown point #1.**
13	**8**	**Through the vehicle left tiedown point #2.**
14	**8A**	**Through the vehicle right tiedown point #2.**
15	**9**	**Through the vehicle left tiedown point #3.**
16	**9A**	**Through the vehicle right tiedown point #3.**

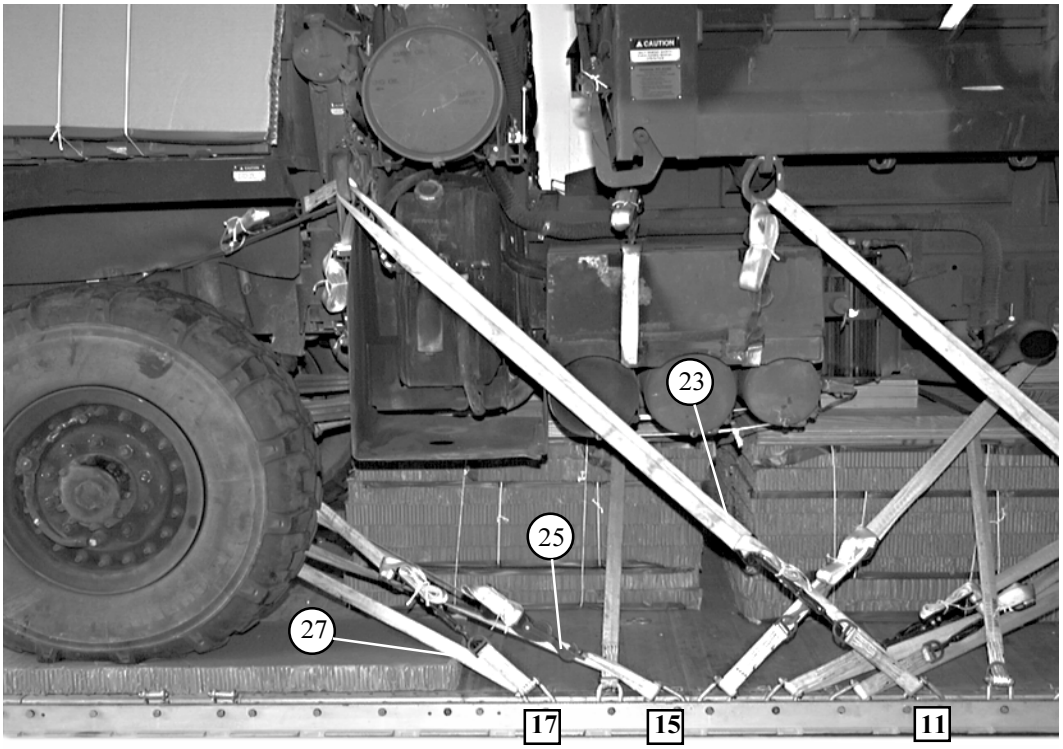
Figure 4-17. Truck positioned and lashed to the platform (Continued)



RIGHT

Lashing Number	Tiedown Clevis Number	Instructions
		Pass lashing:
17	**12**	**Around the vehicle left side center axle, underneath all hoses.**
18	**12A**	**Around the vehicle right side center axle, underneath all hoses.**
19	**13**	**Around the vehicle left side center axle, underneath all hoses.**
20	**13A**	**Around the vehicle right side center axle, underneath all hoses.**
21	**14**	**Through tiedown point #2 on the vehicle left side.**
22	**14A**	**Through tiedown point #2 on the vehicle right side.**

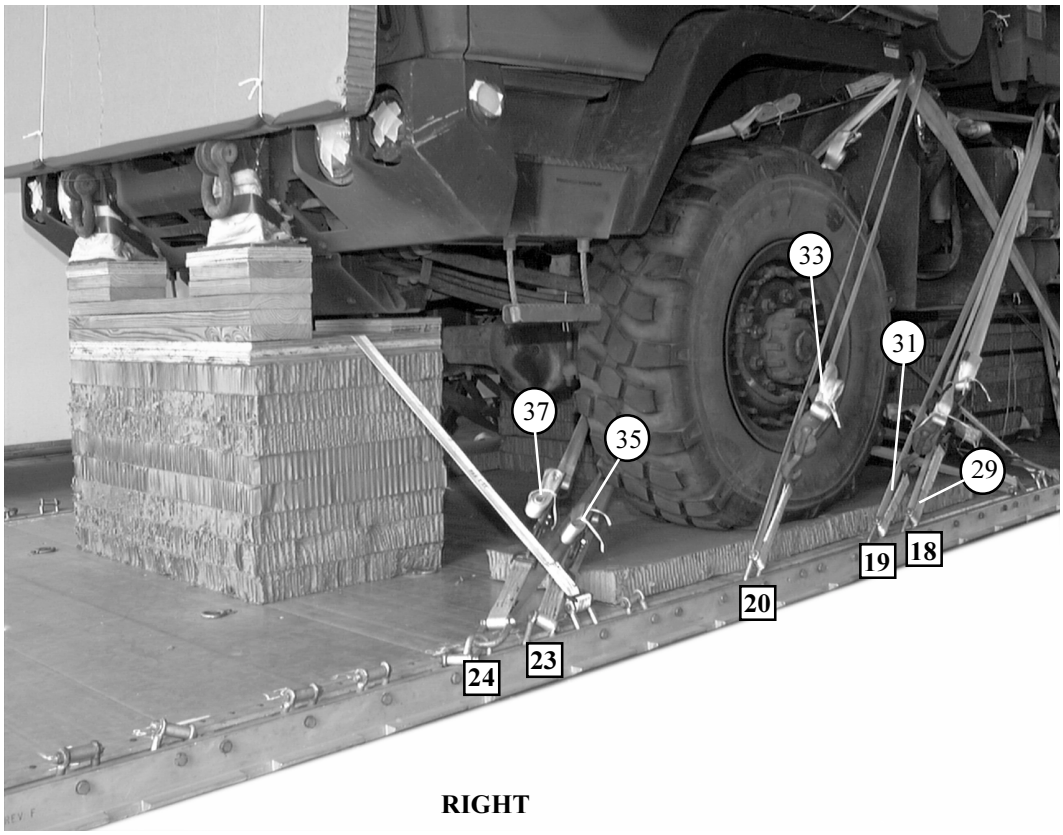
Figure 4-17. Truck positioned and lashed to the platform (Continued)



RIGHT

Lashing Number	Tiedown Clevis Number	Instructions
		Pass lashing:
23	**11**	**Through vehicle left side outer lifting point.**
24	**11A**	**Through vehicle right side outer lifting point.**
25	**15**	**Around the vehicle left side front axle, underneath all hoses.**
26	**15A**	**Around the vehicle right side front axle, underneath all hoses.**
27	**17**	**Around the vehicle left side front axle, underneath all hoses.**
28	**17A**	**Around the vehicle right side front axle, underneath all hoses.**

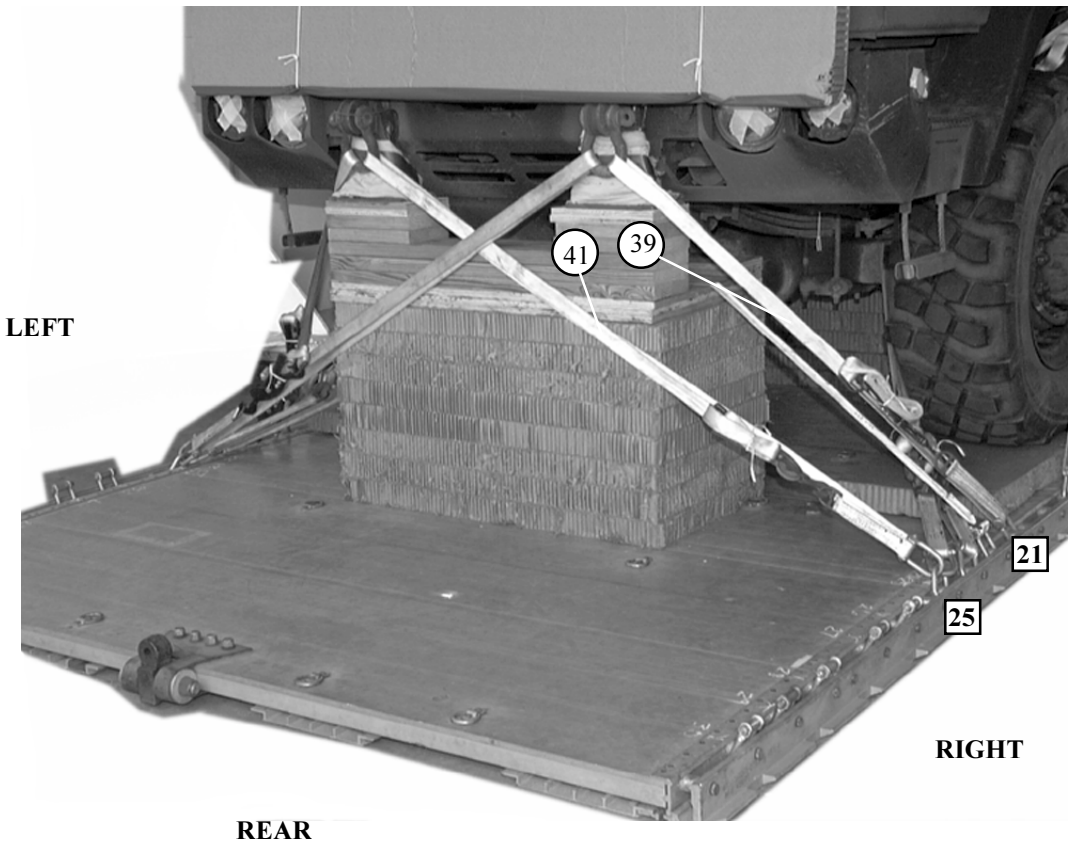
Figure 4-17. Truck positioned and lashed to the platform (Continued)



RIGHT

Lashing Number	Tiedown Clevis Number	Instructions
		Pass lashing:
29	**18**	**Through the vehicle left side tiedown point # 1.**
30	**18A**	**Through the vehicle right side tiedown point # 1.**
31	**19**	**Through the vehicle left side tiedown point # 1.**
32	**19A**	**Through the vehicle right side tiedown point # 1.**
33	**20**	**Through the vehicle left side outer lifting point.**
34	**20A**	**Through the vehicle right side outer lifting point.**
35	**23**	**Around the vehicle left side front axle, underneath all hoses.**
36	**23A**	**Around the vehicle right side front axle, underneath all hoses.**
37	**24**	**Around the vehicle left side front axle, underneath all hoses.**
38	**24A**	**Around the vehicle right side front axle, underneath all hoses.**

Figure 4-17. Truck positioned and lashed to the platform (Continued)

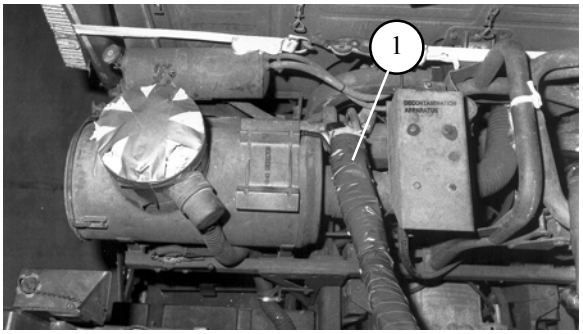


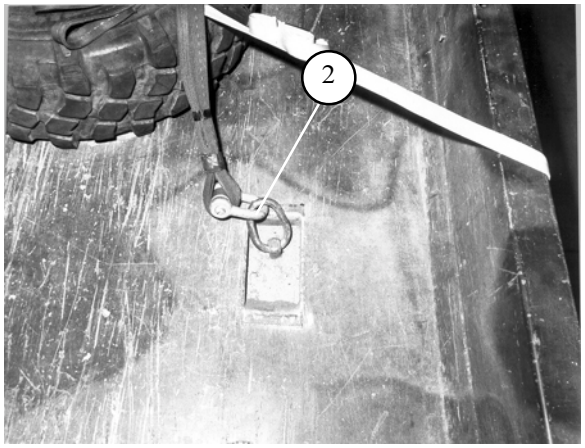
Lashing Number	Tiedown Clevis Number	Instructions
		Pass lashing:
39	**21**	**Through vehicle front tiedown shackle, left side.**
40	**21A**	**Through vehicle front tiedown shackle, right side.**
41	**25**	**Through vehicle front tiedown shackle, right side.**
42	**25A**	**Through vehicle front tiedown shackle, left side.**

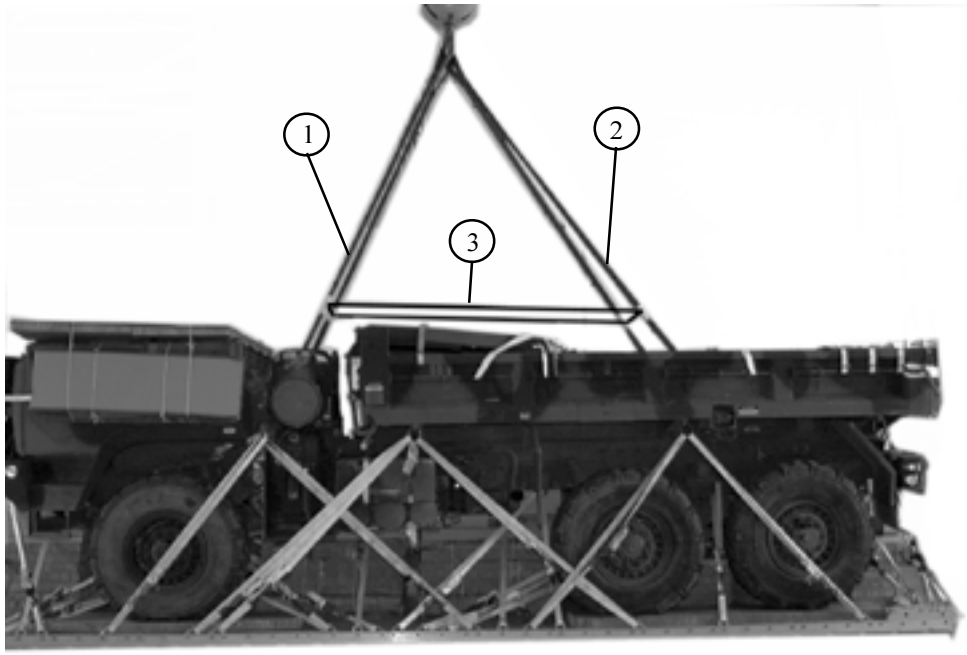
Figure 4-17. Truck positioned and lashed to the platform (Continued)

4-9. Installing and Safetying Suspension Slings

Install and safety the slings according to FM 10-500-2/TO 13C7-1-5 and as shown in *Figure 4-18.*







REAR **FRONT**

RIGHT

(1) Attach a 11-foot (4-loop), type XXVI nylon sling to each of the truck front lifting points with a screw pin clevis. Wrap slings with felt and tape 30-inches above the screw pins clevis.

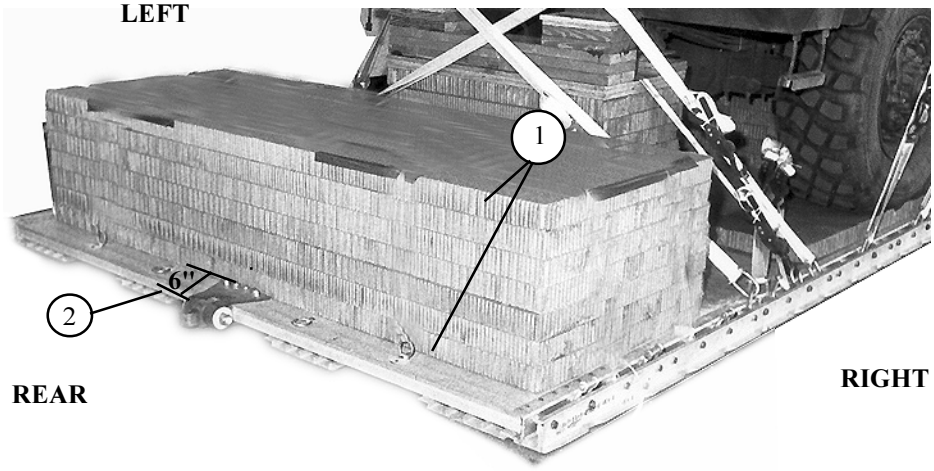
(2) Attach a 12-foot (4-loop), type XXVI nylon sling to each of the rear lifting points with a screw pin clevis.

(3) Install a deadman's tie according to FM 10-500-2/TO 13C7-1-5.

Figure 4-18. Suspension slings installed and safetied

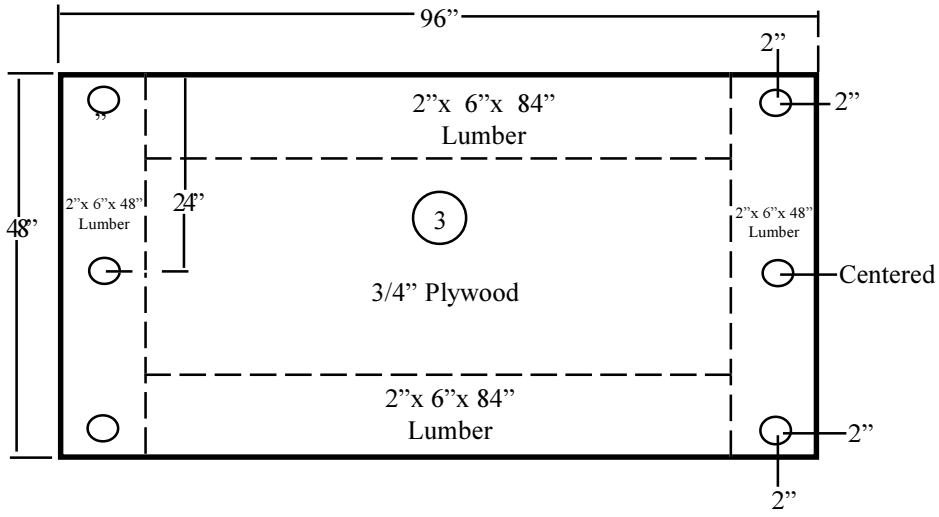
4-10. Building and Positioning the Parachute Stowage Platform

Build and position the parachute stowage platform as shown in *Figure 4-19*.



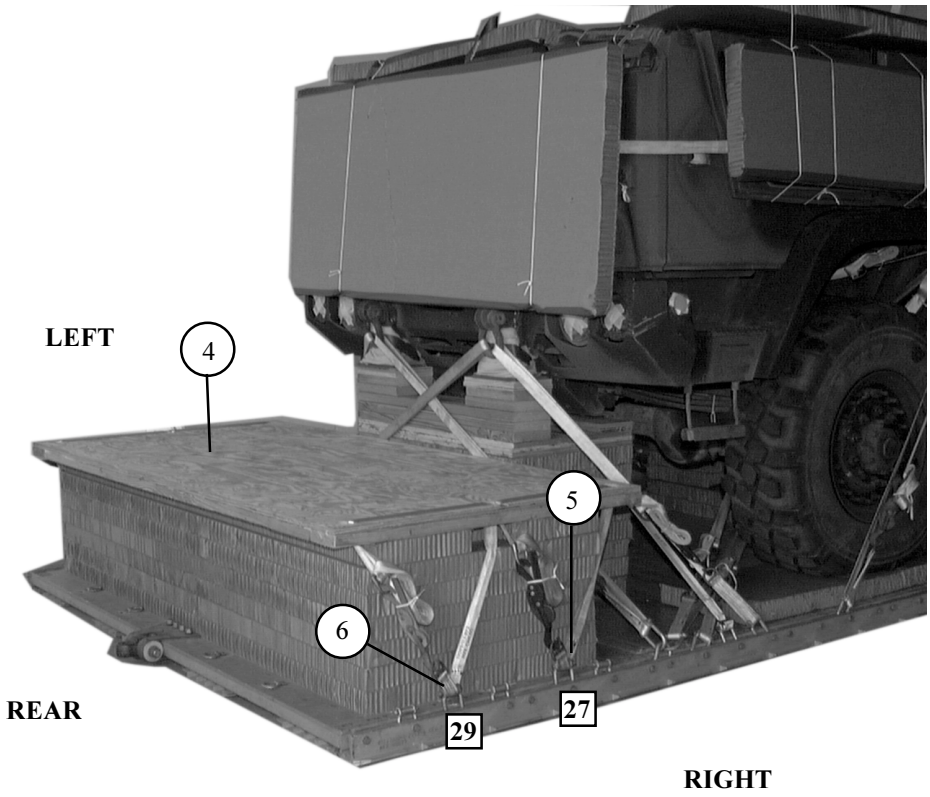
PARACHUTE PLATFORM

Notes: This drawing is not drawn to scale.



1. Glue seven 36- by 96-inch pieces of honeycomb together.
2. Center the honeycomb 6 inches from the rear edge of the platform.
3. Construct parachute platform according to parachute platform diagram.

Figure 4-19. Parachute stowage platform positioned



(4) Position the parachute platform on the honeycomb stack.

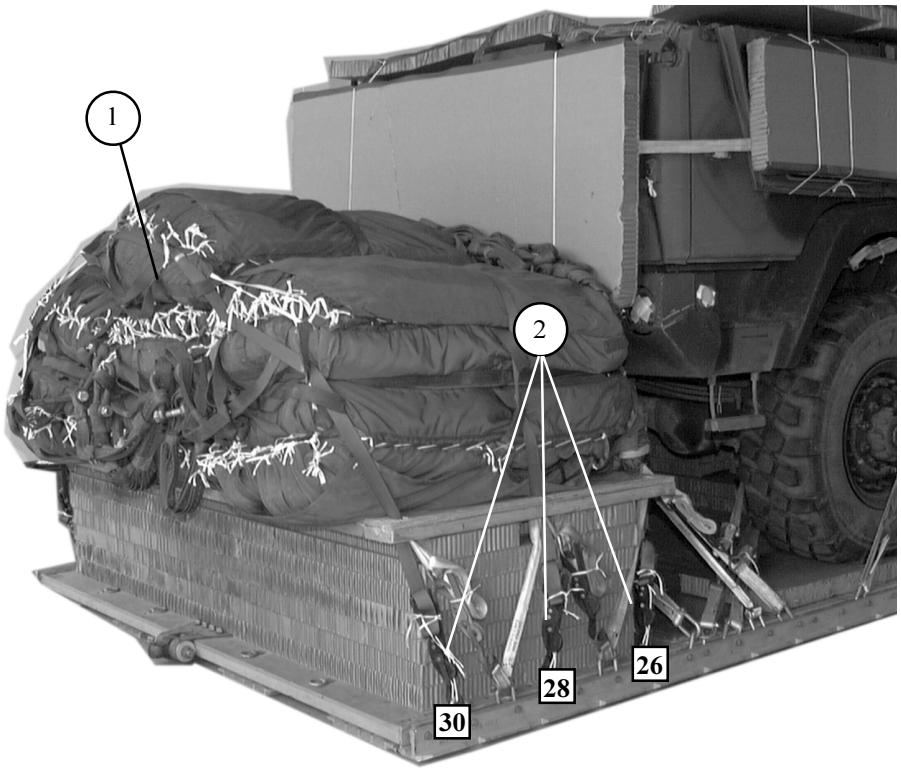
(5) Route a lashing from clevis 27 through the parachute platform front holes through the center holes and secure with a loadbind. Repeat using clevis 27A for the left side.

(6) Route a lashing from clevis 29 through the parachute platform center holes through the rear holes and secure with a loadbind. Repeat using clevis 29A for the left side.

Figure 4-19. Parachute stowage platform positioned (Contuined)

4-11. Stowing Cargo Parachutes

Stow seven G-11 cargo parachutes as shown in *Figure 4-20*.

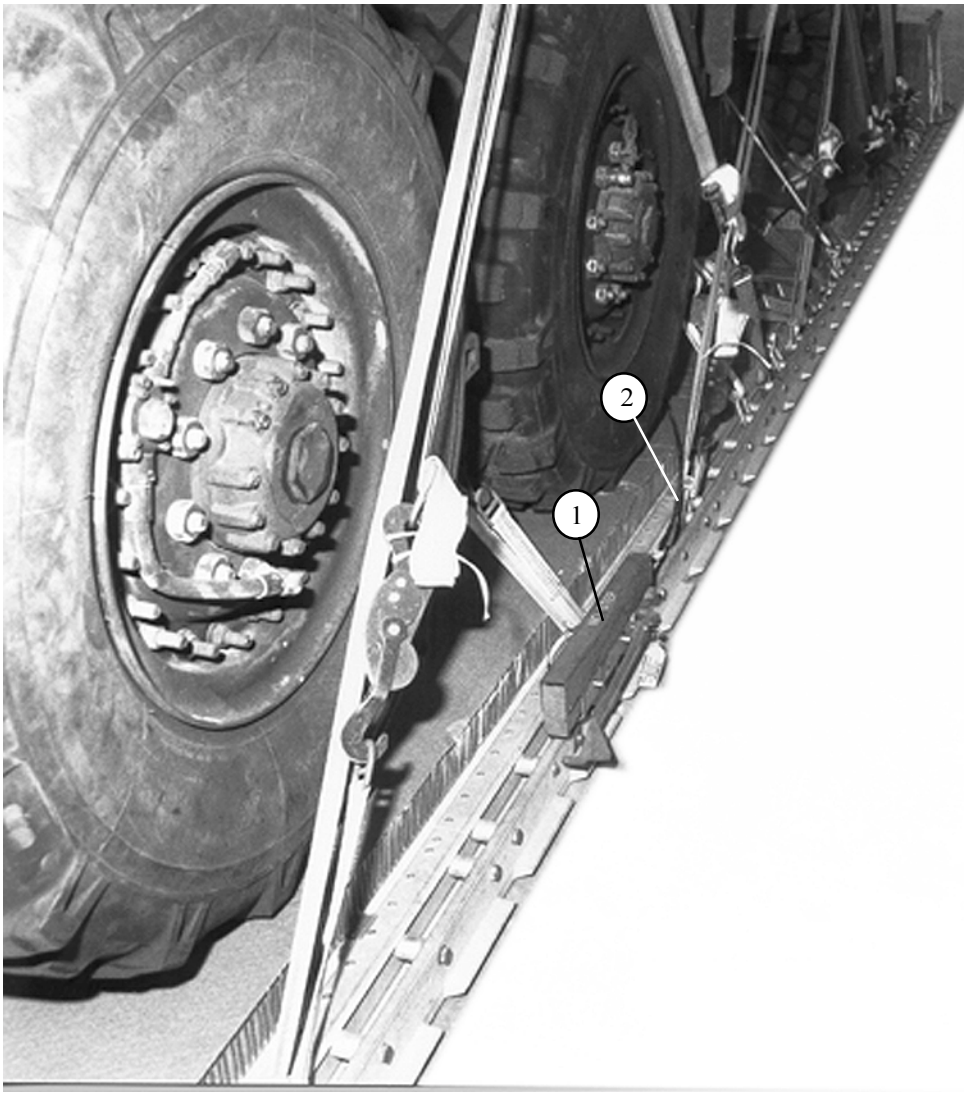


1. Prepare, cluster and place seven G-11 parachutes on the honeycomb according to FM 10-500-2/ TO 13C7-1-5.
2. Install parachute restraints according to FM 10-500-2/TO 13C7-1-5. Secure the restraints to clevises 26, 26A, 28, 28A, 30 and 30A on the platform.

Figure 4-20. Parachutes stowed

4-12. Installing Extraction System

Install the components of the extraction force transfer coupling (EFTC) according to FM 10-500-2/TO 13C7-1-5 and as shown in *Figure 4-21*.

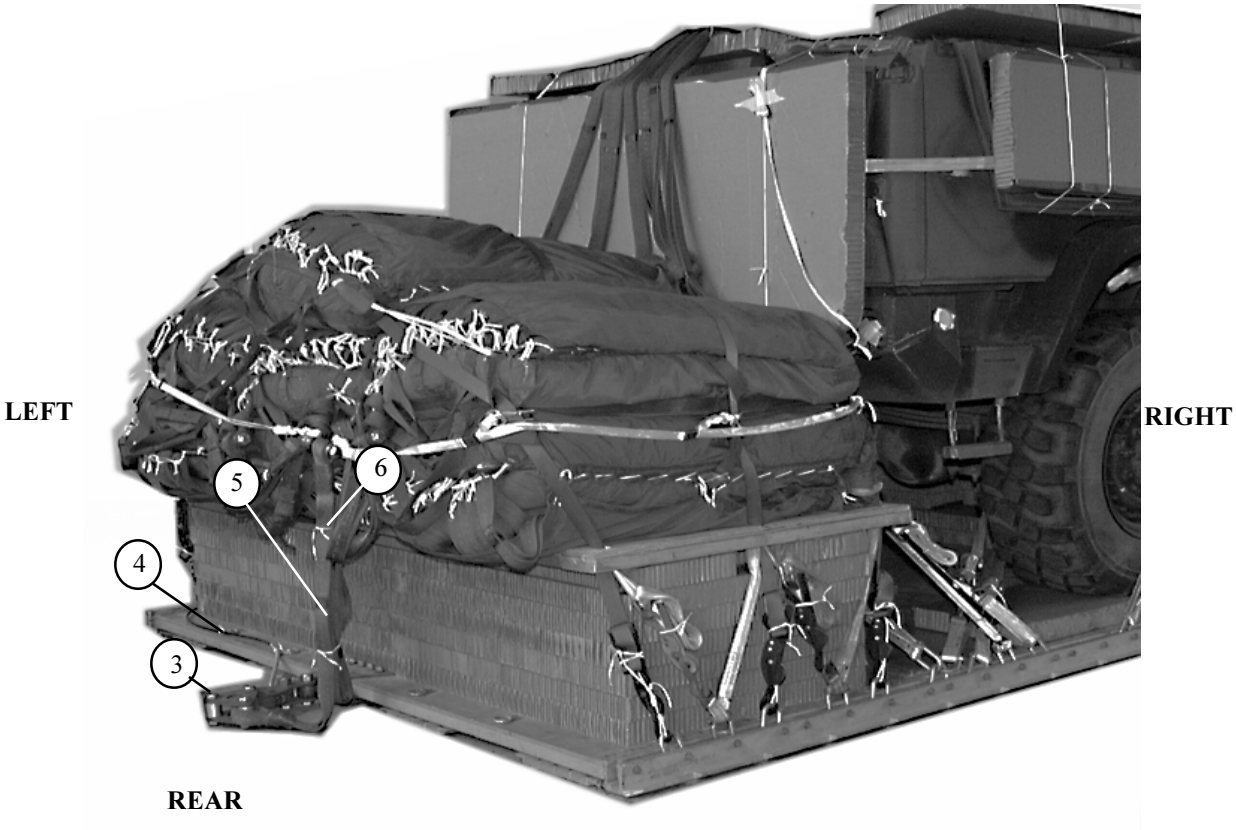


(1) Install the EFTC mounting brackets in the front mounting holes on the left platform rail.

Note: When using the older type V rails that have three mounting positions for mounting the EFTC bracket, use the center position. When using the new rails with two mounting positions, use the forward position. In either case, ensure the EFTC actuator box is mounted between the rear wheels of the vehicle.

(2) Install the EFTC extraction system according to FM 10-500-2/TO 13C7-1-5. Attach a 24-foot release cable to the actuator mounting brackets.

Figure 4-21. Extraction system installed



(3) Install the latch assembly on the extraction bracket according to FM 10-500-2/TO 13C7-1-5. Attach the release cable to the latch assembly.

(4) Safety the cable with one turn type I, 1/4-inch cotton webbing to the platform bushings or deck rings.

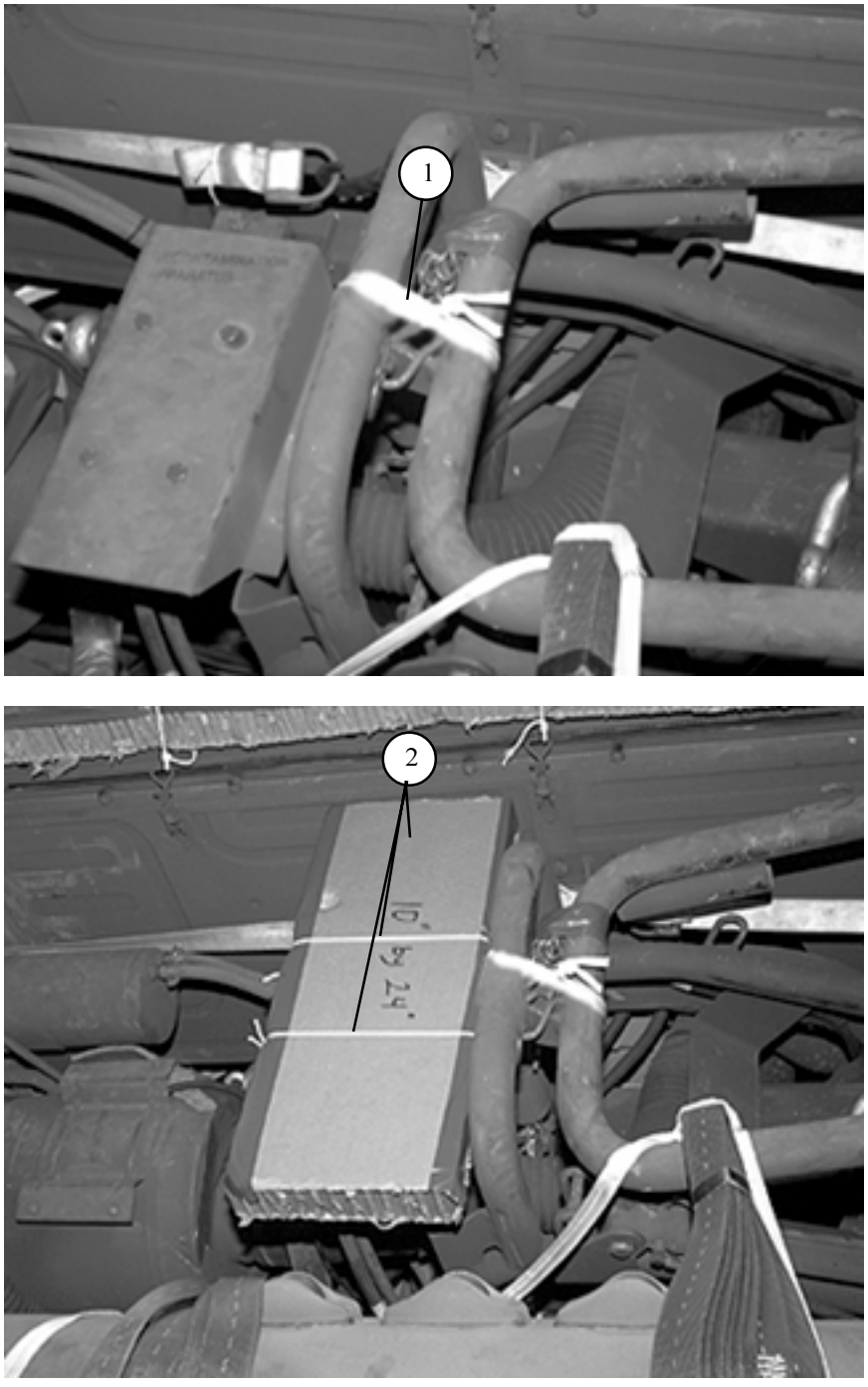
(5) Connect one end of a 9-foot (2-loop), type XXVI nylon sling (deployment line) to the link assembly according to FM 10-500-2/TO 13C7-1-5. Attach the other end to the three point link.

(6) Fold the excess deployment line, and secure the folds with type I, 1/4-inch cotton webbing according to FM 10-500-2/TO 13C7-1-5.

Figure 4-21. Extraction system installed (Continued)

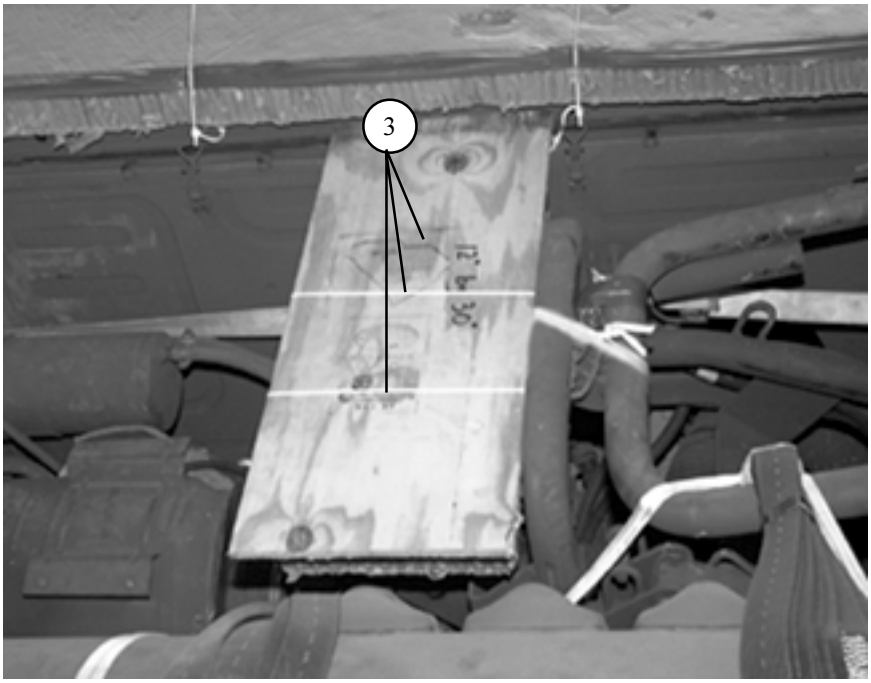
4-13. Installing Release System

Install an M-2 cargo parachute release according to FM 10-500-2/TO 13C7-1-5 and as shown in *Figure 4-22.*



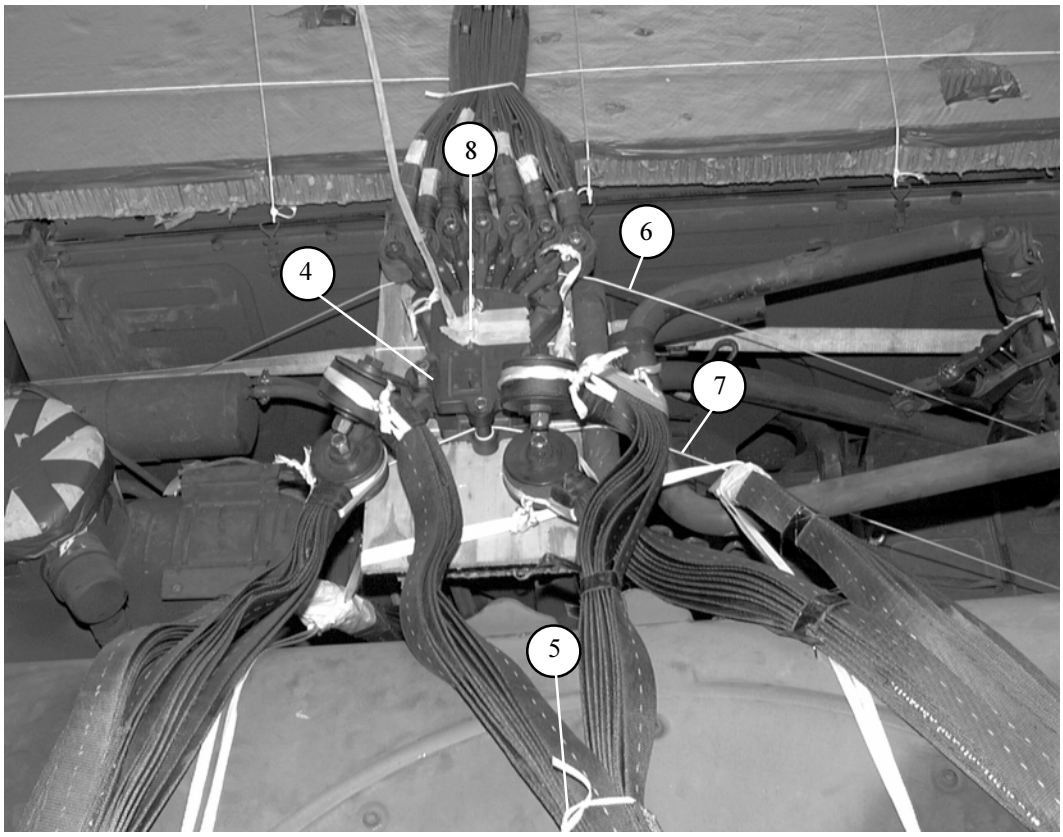
1. Secure the spare tire mounts together with double 1/2-inch tubular nylon webbing.
2. Place a 10- by 24-inch piece of honeycomb on the outside of the spare tire mount. Secure with type III nylon cord.

Figure 4-22. Parachute release installed



(3) Place a 12- by 30-inch piece of 1/4-inch plywood centered on top of the piece of honeycomb. Secure it in place with type III nylon cord.

Figure 4-22. Parachute release installed (Continued)



(4) Prepare an M-2 cargo parachute release assembly according to FM 10-500-2/TO 13C7-1-5. Attach the release assembly to the suspension slings and the cargo parachutes according to FM 10-500-2/TO 13C7-1-5. Center the release assembly on top of the plywood.

(5) Fold the suspension slings, and secure the folds with single turns of type 1, 1/4-inch cotton webbing.

(6) Secure the top of the release assembly to convenient places on the load and according to FM 10-500-2/TO 13C7-1-5.

(7) Secure the bottom of the release assembly to convenient places on the load and according to FM 10-500-2/TO 13C7-1-5. Fold and tie any slack in the suspension slings.

(8) Install the arming lanyard according to FM 10-500-2/TO 13C7-1-5.

Figure 4-22. Parachute release installed (Continued)

4-14. Installing Provisions for Emergency Restraints

Select and install provisions for emergency restraints according to the emergency restraint requirements table found in FM 10-500-2/TO 13C7-1-5.

4-15. Placing Extraction Parachute

Select the extraction parachute and extraction parachute line needed using the extraction parachute and extraction line requirements table found in FM 10-500-2/TO 13C7-1-5.

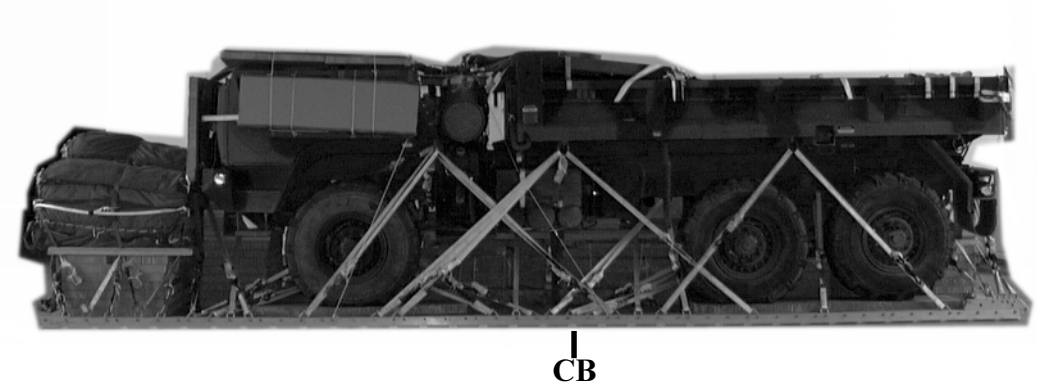
4-16. Marking the Rigged Load

Mark the rigged load according to FM 10-500-2/TO 13C7-1-5 and as shown in *Figure 4-23*.

4-17. Equipment Required

Use the equipment listed in *Table 4-2* to rig this load.

CAUTION
Make the final rigger inspection required by FM 10-500-2/TO 13C7-1-5 before the load leaves the rigging site.



CAUTION
This load requires an accompanying load of 2,000 pounds to attain the required Center of Balance (CB).

RIGGED LOAD DATA

Weight: Load shown	**32, 087 pounds**
Maximum load allowed	**32, 500 pounds**
Height	**95 inches**
Width	**108 inches**
Overall-Length	**354 inches**
Overhang: Front	**0 inches**
Rear (EFTC)	**18 inches**
CB (from front edge of platform)	**144 inches**
Extraction System	**EFTC**

Figure 4-23. M1094, 5-ton dump truck rigged for low-velocity airdrop

Table 4-2. Equipment required for rigging the M1094, 5-ton dump truck for low-velocity airdrop on a type V platform

National Stock Number	Item	Quantity
8040-00-273-8713	Adhesive, paste	As required
1670-01-035-6054	Bridle, extraction line bag (Use with extraction line bag), (C-17)	1
4030-00-432-2516	Clevis, screw pin	4
4030-00-090-5354	Clevis, suspension, 1-in (large)	4
4020-00-240-2146	Cord, nylon, type III, 550-lb	As required
8305-00-242-3593	Cloth, cotton duck, 60-in	As required
1670-00-434-5782	Coupling, airdrop extraction force transfer cable, 24-ft	1
1670-00-360-0328	Cover, clevis, large	3
8135-00-664-6958	Cushioning material, packaging, (cellulose wadding)	As required
8305-00-958-3685	Felt, 1/2-in thick	As required
1670-01-183-2678	Leaf, extraction line, bag	2
	Line, extraction line, type XXVI nylon webbing	
5510-00-064-4452	60-ft (1-loop), drogue	1
1670-01-064-4454	60-ft (6-loop), (C-130 aircraft)	1
1670-01-062-6312	120-ft (6-loop), (C-141 and C-5 aircrafts)	1
1670-01-468-9178	140-ft (6-loop), (C-17 aircraft)	1
NO NSN	Link, towed mechanized release (H-block), (C-17 aircraft)	1

Table 4-2. Equipment required for rigging the M1094, 5-ton dump truck for low-velocity airdrop on type V platform (continued)

National Stock Number	Item	Quantity
	Link assembly:	
1670-00-006-2752	Four-point:	1
	Two-point:	1
5306-00-435-8994	Bolt, 1-in diam, 4-in long	(2)
5310-00-232-5165	Nut, 1-in	(2)
1670-00-003-1954	Plate, side, 5 1/2-in	(2)
5365-00-007-3414	Spacer, large	(2)
1670-01-247-2389	Link, suspension tandem	2
1670-01-162-2381	Link, tandem, link suspension assembly	
	Load spreader for honeycomb stack 1:	
	Lumber:	
5510-00-220-6148	2- by 6- by 8-in	10
	2- by 6- by 10-in	4
	2- by 6- by 33-in	3
5510-00-220-6246	2- by 8- by 45-in	4
5530-00-129-7777	Plywood, 1/2-in:	
	5 1/2- by 8-in	4
	5 1/2- by 10-in	1
5530-00-128-4981	Plywood, 3/4-in:	
	18- by 48-in	3
	Load spreader for honeycomb stack 2:	
5510-00-220-6246	Lumber, 2- by 8- by 20-in	3
5530-00-128-4981	Plywood, 3/4-in:	
	7 1/2- by 20-in	1
	20- by 43-in	3

Table 4-2. Equipment required for rigging the M1094, 5-ton dump truck for low-velocity airdrop on a type V platform (continued)

National Stock Number	Item	Quantity
	Load spreader for honeycomb stack 3:	
5510-00-220-6146	Lumber, 2- by 4- by 11-in	2
5510-00-220-6274	Lumber, 4- by 4- by 48-in	2
5510-00-128-4981	Plywood, 3/4-in:	
	6- by 11-in	2
	18- by 48-in	3
	Load spreader for honeycomb stack 4:	
	Lumber:	
5510-00-220-6148	2- by 6- by 21-in (without winch), **(with winch)**	2 **(3)**
	2- by 6- by 48-in	1
5510-00-220-6250	2- by 12- by 12-in	4
	2- by 12- by 38 1/2- in	2
5510-00-128-4981	Plywood 3/4-in:	
	5 1/2- by 21-in	2
	11 1/2- by 12-in	2
	44- by 48-in	3
	Load spreader for honeycomb stack 5:	
5510-00-220-6246	Lumber, 2- by 8- by 26 1/2-in	2
5530-00-128-4981	Plywood, 3/4-in:	
	7 1/2- by 8-in	1
	7 1/2- by 26 1/2-in	1
	6- by 8-in	1
	8- by 16-in	1
	10- by 10-in	1
	12- by 14-in	6
	46- by 48-in	3
	Load spreader for honeycomb stack 6:	
5510-00-220-6246	Lumber, 2- by 8-in:	
	2- by 8- by 12-in	4
	2- by 8- by 43-in	3

Table 4-2. Equipment required for rigging the M1094, 5-ton dump truck for low-velocity on type V airdrop platform (continued)

National Stock Number	Item	Quantity
5530-00-128-4981	Plywood, 3/4-in:	
	7- by 14-in	4
	7 1/2- by 12-in	4
	24- by 43-in	3
	Nail, steel wire, common:	
5315-00-010-4659	8d	As required
5315-00-753-3885	16d	As required
1670-00-753-3928	Pad, energy-dissipating, honeycomb,	
	3- by 36- by 96-in:	55 sheets
	8- by 20-in	(2)
	11- by 16-in	(7)
	12- by 36-in	(12)
	12- by 44-in	(2)
	12- by 46-in	(2)
	18- by 44-in	(12)
	18- by 46-in	(12)
	18- by 48-in	(12)
	18- by 60-in	(2)
	18- by 74-in	(2)
	18- by 96-in	(2)
	20- by 43-in	(5)
	24- by 43-in	(8)
	36- by 44-in	(2)
	36- by 46-in	(2)
	36- by 80-in	(1)
	36- by 96-in	(8)
	Parachute, cargo:	
1670-01-016-7841	G-11C	7
	Parachute, cargo extraction:	
1670-00-040-8135	28-ft	2
1670-01-063-3715	15-ft (Drogue, C-17)	1

Table 4-2. Equipment required for rigging the M1094, 5-ton dump truck for low-velocity airdrop on a type V platform (continued)

National Stock Number	Item	Quantity
	Platform, AD, type V, 28-ft	1
1670-01-353-8425	Bracket assembly comp	(1)
1670-01-162-2372	Clevis, load tiedown	(56)
1670-01-353-8424	Extraction bracket assembly	(1)
1670-01-162-2381	Tandem link	(2)
1670-01-097-8817	Release, cargo parachute, M-2	1
	Sling, cargo, airdrop:	
	For deployment line:	
1670-01-062-6304	9-ft (2-loop), type XXVI nylon webbing	1
	For lifting:	
1670-01-062-6305	9-ft (4-loop), type XXVI nylon webbing	2
1670-01-064-4453	20-ft (4-loop), type XXVI nylon webbing	1
	For suspension:	
1670-01-062-6310	11-ft (4-loop), type XXVI nylon webbing	2
1670-01-062-6307	12-ft (4-loop), type XXVI nylon webbing	2
	For riser extension:	
1670-01-062-6311	120-ft (2-loop), type XXVI nylon webbing	7
5340-00-040-8219	Strap, parachute release, multi-cut with 3 knives	2
	Truck preparation	
N/A	Bolts (Nuts and Washers), 1/2- by 10-in	4
	Lumber:	
5510-00-220-6146	2- by 4- by 6	4
5510-00-220-6148	2- by 6- by 6	3
	2- by 6- by 13	10
5510-00-220-6274	4- by 4- by 6	2
	4- by 4- by 15	2

Table 4-2. Equipment required for rigging the M1094, 5-ton dump truck for low-velocity airdrop on a type V platform (continued)

National Stock Number	Item	Quantity
1670-00-753-3928	Pad, energy-dissipating, honeycomb,	
	3-by 36- by 96-in:	14 sheets
	4- by 6-in	(1)
	18- by 60-in	(2)
	36- by 80-in	(1)
	36- by 96-in	(1)
5530-00-128-4981	Plywood, 3/4-in:	
	10- by 10-in	1
7510-00-266-5016	Tape, adhesive, 2-in (masking)	As required
7510-00-074-5124	Tape, pressure sensitive, 2-in (cloth, back)	As required
5340-00-937-0273	Tiedown assembly, 15-ft	80
	Webbing:	
8305-00-268-2411	Cotton, 80-lb	As required
8305-00-082-5752	Nylon, tubular, 1/2-in, 1,000-lb natural	As required
8305-00-263-3591	Type VIII, natural	As required
8305-00-261-8584	Type X, natural	As required